

# AMERICAN NURSERYMAN

*The Nurseryman's Forte: To Make America More Beautiful and Fruitful*

AUGUST 1, 1959

Serial Dept.

JUL 28 1959



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# Mount Arbor Nurseries

ESTABLISHED 1875

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# AMERICAN NURSERYMAN

[Registered U. S. Patent Office]

*The Nurseryman's Forte: To Make America More Beautiful and Fruitful*

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Forms for the September 1 issue will close Friday, August 7.

Forms for the September 15 issue will close Friday, August 21.

Mail copy to arrive at Chicago by these dates—no later!

# CARAMBA!

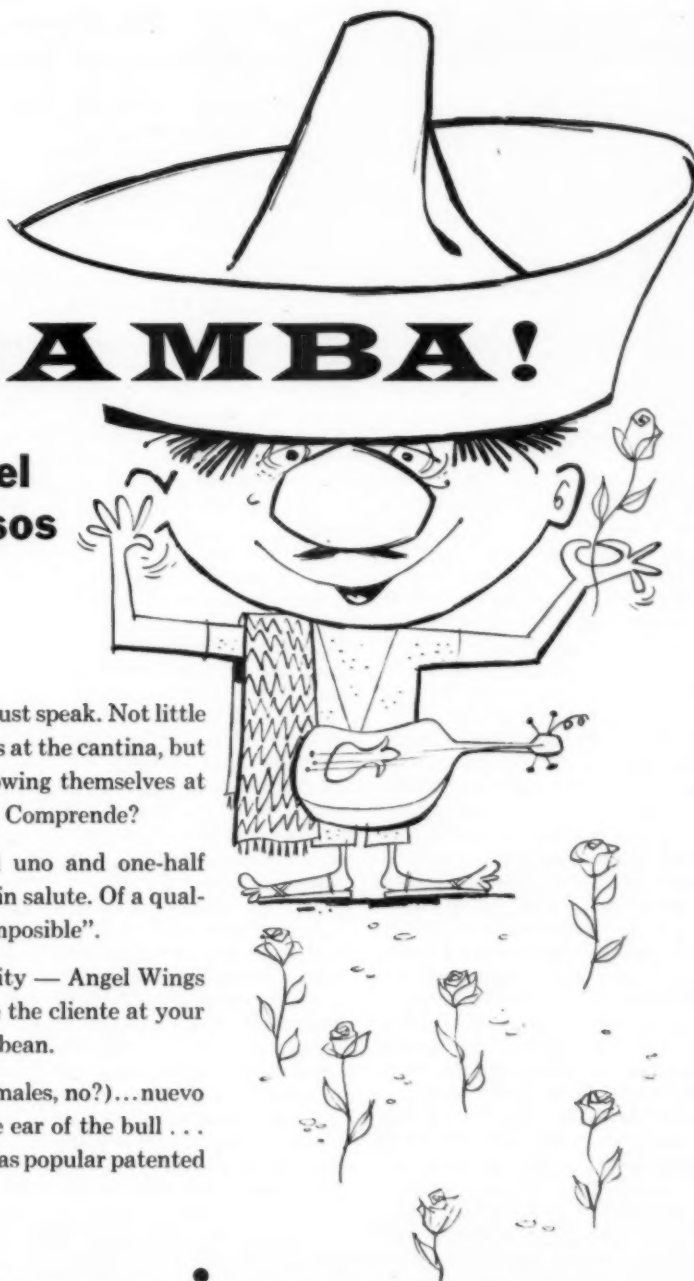
thees roses weel  
put muchos pesos  
in the pocket!

Hola, Senor. It is of la rosa we must speak. Not little Rosita who serves the enchiladas at the cantina, but the roses that are presently growing themselves at Howards de Hemet, California. Comprende?

Of the numero uno (#1) and uno and one-half grades, it is to lift the sombrero in salute. Of a quality the senor would insist "es imposible".

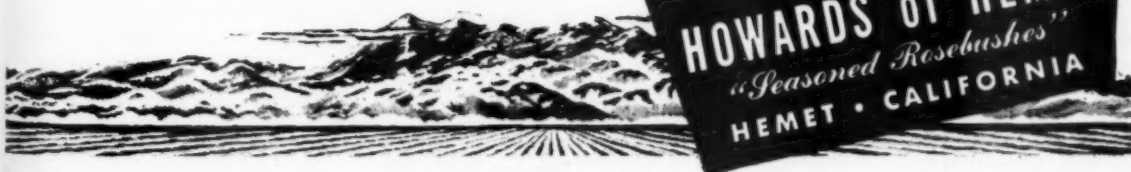
Originations of our own ingenuity — Angel Wings and Governor Rosellini to make the cliente at your nursery jump like the Mexican bean.

All-Americano Winners (hot tamales, no?)...nuevo varieties, difficil to obtain as the ear of the bull . . . they sell themselves here, todas las popular patented and non-patented rosas.



Let not the grass grow under the senor's huaraches. Grab the bull by the extremo and write for the wholesale catalog. Pronto! Por Favor! Gracias!

"Seasoned Rosebushes"  
for the wholesale trade exclusively



**HOWARDS of HEMET**  
"Seasoned Rosebushes"  
HEMET • CALIFORNIA

# AMERICAN NURSERYMAN

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*Editor and Publisher*

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*Associate Editor*

C. A. BRADY, Jr.  
*Advertising Manager*

## Editorial

### CITY TREES

As the Dutch elm disease spread over a larger area of the country, city and town officials as well as the public in a larger and larger number of communities became aware of the importance of the shade trees along their streets and the necessity for proper care and attention to preserve their usefulness and beauty. In some eastern states the tree wardens and city foresters have been rendering notable service for a number of years, as nurserymen in those parts are well aware. Now in the midwest similar officials have been appointed and given authority, and in some places taxes are being imposed, so that trees on parkways and elsewhere may have the attention they deserve.

Under the guidance of informed persons on the staffs at state universities or experiment stations, the responsible officials in various localities are being instructed and guided. They and the public are learning that sanitation, which means keeping the trees clean and healthy, is probably more important than remedial measures at the eleventh hour, in extending the life of elms and other shade trees. Proper planting and spacing are being given attention, and homeowners and subdividers are no longer permitted to set out trees of any type or size on parkways. Lists of the more suitable trees adapted to a locality or area are being published, and warnings which reputable nurserymen have long given are now heeded against planting trees which will become a nuisance and an eyesore.

In most localities nurserymen and arborists keep abreast of the activity in this respect, helping with advice and counsel where requested and furthering the work of local officials in contacts with homeowners. After the scare of the Dutch elm disease and other tree blights has passed, public interest is likely to wane and the activity of local political officials

to subside. Those interested in the city trees, either commercially or in amateur groups, should help to maintain interest and attention, so that the future will see better street plantings and not reversion here and there to old faults.

### ENLARGING SALES

Most nurserymen and garden centers face the problem of obtaining a proportionate return from salespersons on the basis of time, volume and cost. It is a problem common to other fields, and methods of solving it attempted elsewhere should be, and in a few cases are being, tried in this industry.

Paramount in importance, it would seem, is the increasing size of individual sales by multiplying the units in customers' purchases. This has been evident for some time in mail-order nurserymen's catalogs, in offers of three of a variety at a reduced cost or combinations of varieties or colors at a lower rate. Like cans of beer that come in packs, now small plants, especially those of the bedding type, are sold in containers that carry half a dozen or a dozen, to gardeners who will not buy a flat of seedlings.

The same principle may be applied to shrubs, more easily if they are sold bare root, but also if they are sold in pots or other containers. By means of display signs at the nursery or advertising in the press, such offers will increase the size of individual purchases. The nurseryman who does not keep his eyes open for opportunities of this kind, in supermarkets and elsewhere, as in other nurseries, is limiting his own efforts. Alert merchandisers in this field are increasing volume and reducing sales costs, both pleasurable to themselves and the sales personnel.

### "GOING OUT OF BUSINESS"

Complaints of merchants in other fields about the "going out of business" racket which nurserymen have found disturbing in some states have recently been so extensive that they have stirred organizations in Chicago to action.

During a recent 6-month period, the Chicago better business bureau found 84 such duly licensed sales were held in Chicago, resulting in the disposal of nearly \$6,000,000 worth of inventories.

Needless to say, merchants in the lines of merchandise of which the

sales were held found their business demoralized in the period while such sales continued. Customers also complained, because instead of finding real bargains, they found that the stocks often were "loaded" with cheaper merchandise than that regularly handled by the advertiser. Hence there was no saving to the customers.

Consequently, the Chicago better business bureau has joined with the Chicago Retail Merchants Association in drafting a new proposed state law to regulate "going out of business" sales, as well as sales of goods damaged by smoke, fire and water.

Representing a big improvement over the present fraudulent sales act in Illinois, the proposed bill would reduce the period of time during which such a distress sale may be conducted from six months to three months. The original license would run only for 60 days, and only one renewal would be allowed and for a period of not more than 30 days. The bill would also prohibit unusual purchases of merchandise 60 days prior to the sale and the sale of merchandise received on consignment. An inventory, to be filed with the application for a license, must identify merchandise to be sold by make or brand name and list the source and cost price as well.

The proposed Illinois law may be useful as a model in other states where the "going out of business" racket has disturbed nurserymen and merchants in other lines of business.

### TO ATTRACT THE BIRDS

Residents of some suburban communities complain that they do not see the less common birds that used to add to the pleasure of their gardens. Complaints are made that insecticides, especially DDT, sprayed on trees and shrubs, have curtailed the bird population. The debate goes on, without conclusive argument on either side.

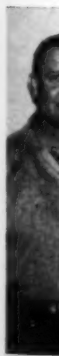
More likely, the building boom has put homes on the few remaining vacant lots in established suburbs, and the shelter and food which birds formerly obtained from the native trees and shrubs and weeds on those vacant lots have been removed. Furthermore, the increased attention to the manicured home gardens in those communities has left less and less shelter and food for the birds. New subdivisions beyond established

[Concluded on page 76]

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# West Texans Join New Mexico Group In Annual Meet

**Joint Sessions at Albuquerque  
Cover New Nursery Legislation,  
Pest Control and Merchandising**



Panel members and moderator who discussed garden center merchandising at the fifth joint convention of the Plains Nurserymen's Association and New Mexico Association of Nurserymen: Left to right, seated, William Norman, Phoenix, Ariz., Bernie Grass, Phoenix, Ariz.; Jimmie Walker, Midland, Tex.; standing, Jesse Baxter, Albuquerque, N. M., and Ralph Callaway, Carlsbad, N. M., moderator.

Registration reached 155 persons at the fifth joint convention of the Plains Nurserymen's Association and the New Mexico Association of Nurserymen held June 28 to July 1 at the Hilton hotel, Albuquerque, N. M. Heard with interest were talks on garden center merchandising, insect control, pruning, plant feeding, pecan varieties and nursery laws. Thoroughly enjoyed were the luncheons and social events during the evenings.

## New Officers and Directors

At separate business sessions of the two organizations, new officers and directors were elected. For the Plains Nurserymen's Association the following persons were chosen: President, Charles Black, Black's Nursery, El Paso, Tex.; vice-president, Wilson Holden, Holden-Dodson Nursery, Lubbock, Tex.; and secretary-treasurer, Lily Walker, Walker Nurseries, Midland, Tex. New direc-

tors elected for two years included Carol Siemann, Green Thumb Nursery & Garden Center, El Paso; George Farlow, Vineyard Landscaping Co., Midland, Tex., and James Bruce, Bruce Nurseries, Amarillo, Tex. Having one more year to serve on the board are Scott Mosty, Mosty Bros., Center Point, Tex.; Ben Barron, Odessa Nursery, Odessa, Tex., and Randall Kershner, Kershner Nursery, Lubbock, Tex. As retiring president, C. A. (Art) Sellman, Green Thumb Nursery & Garden Center, will serve on the board.

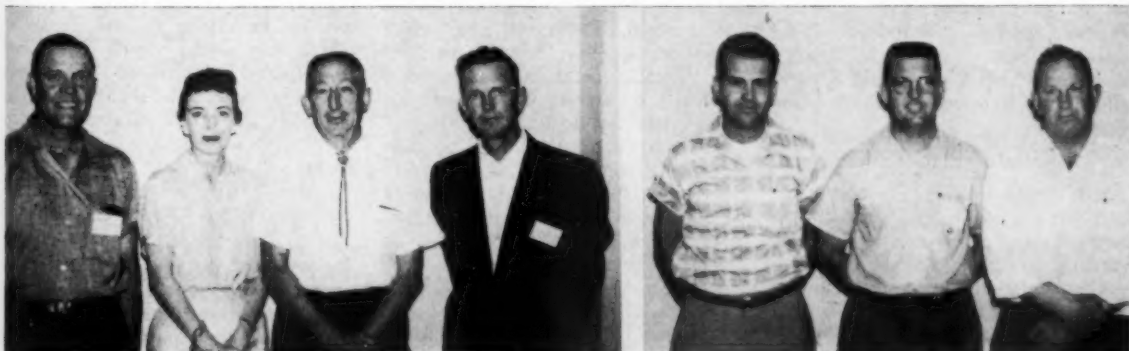
At the business meeting of the New Mexico Association of Nurserymen the following were elected to office: President, M. P. (Pat) Rowland, Rowland Landscaping & Sprinkler Co., Albuquerque; vice-president, Don Wood, Stahmann Farms, Inc., Las Cruces. The secretary-treasurer will later be appointed by the president. New directors elected for one year were James Van-

dersys, Santa Fe Nursery, Santa Fe; Robert Reifsteck, Carpenter Nursery & Garden Center, Roswell; Ralph Ballinger, Ballinger's Nursery, Albuquerque; Horace Kershner, H. V. Kershner Nursery, Albuquerque, and Donald E. Pigford, San Juan Nurseries, Farmington. Harold D. Means, H. & H. Wholesale Nursery, Inc., Las Cruces, as retiring president, remains on the board.

The convention was officially called to order Monday morning, June 29, by Mr. Means, who introduced the first speaker, Dr. E. R. Jensen, New Mexico College of Agriculture and Mechanic Arts, Las Cruces, whose topic was "Sales Promotion in Garden Centers and Nurseries." He said promotion is necessary to rouse persons' interest in a store or nursery so they will be eager to buy its products. Promotions are based on the following facts:

(1) People are curious (implying

[Continued on page 80]



Newly elected officers of the Plains Nurserymen's Association, chosen at the recent joint convention with the New Mexico Association of Nurserymen: Left to right, Wilson Holden, vice-president; Lily Walker, secretary-treasurer; Art Sellman, retiring president, and Charles Black, president.

New officers of the New Mexico Association of Nurserymen elected at the joint meeting with the Plains Nurserymen's Association: Left to right, Don Wood, vice-president; Harold Means, outgoing president, and Pat Rowland, president.



Speakers at the Florida nurserymen's and growers' short course at the University of Florida, Gainesville, June 18 and 19: Left to right, R. D. Dickey, U. of F.; James Griffin, Jr., executive secretary, F. N. G. A.; Henry Martin, Florida State University, Tallahassee; E. W. McElwee, U. of F.; Richard Poole, graduate student, U. of F.; R. E. (Ed) Brown, Goochland Nurseries, Pembroke, and Roy Rood, Rood Landscape Co., Jupiter, past president, F. N. G. A.

## State University Hosts Florida Course

Program Stresses Garden Center Layout and Operation, Production Problems

By E. W. McElwee

Over 140 nurserymen and growers gathered at the University of Florida, Gainesville, June 18 and 19, for the fifth annual nurserymen's and growers' short course. The short course was organized and conducted by the university's agricultural extension service, assisted by members of the staff of the experiment station and college of agriculture. The detailed lectures and discussions, tours, field trips and meetings in the classrooms all contributed to the school atmosphere of the short course.

The formal program opened Thursday morning, June 18, when J. N. Busby, assistant director of the extension service, welcomed the group to the campus. He emphasized the many extension services available to growers, including short courses, adult schools, soil testing, advice and help from county agents' offices and bulletins on many subjects.

### Garden Center Sessions

For the first time this year, considerable attention in the short course program was given to the development of garden centers, salesyards and garden supply stores. Donald Hastings, Jr., Hastings Seed Co., Atlanta, Ga., started the discussion by giving his experience in setting up two garden centers at Atlanta and one at Charlotte.

He stated that one interested in starting a garden center should be sure that he is able to capitalize the

development properly before deciding on the location. A survey should be made to determine the potentials of an area being considered as the site for a garden center. The survey should determine the projected growth of the area, the type of new homes and the emphasis of do-it-yourself landscaping in the general vicinity.

The next step after choosing the location is to develop a philosophy upon which to base the business. The department store approach was considered best for the H. G. Hastings Co. This involves stocking plants in a storage area for transfer to the display area as needed. The display of any one item is limited to the amount needed to offer the homeowner an adequate choice of material. Under this system, workmen can select plants for quality, remove diseased plants, etc., in an area separated from the salesroom, where they can work faster and do a better job.

He pointed out that there are two possible directions to take in store operation. One utilizes a minimum of sales personnel and places a maximum of reliance on the customers to select and serves themselves. The other approach is to have enough salesmen to give individual attention and help to the customer in making his purchase.

Mr. Hastings feels that the self-service approach is the best for the type of garden center being established by the H. G. Hastings Co. A proper proportion for an average

garden center would be four units of storage area for each unit of sales area.

He emphasized the fact that the mass display concept is adapted more to a cut-rate or low-price type of operation, whereas the limited display approach is conducive to the customer's making a faster choice and results in less plant breakage. Mr. Hastings recommends a small sales area of 8,000 to 10,000 square feet and stated that one of the major points in favor of such an area is that it is easier to keep clean.

### Recommends "Planted" Displays

Plants should be displayed at "planted" height — that is, it is better to dig out the beds and provide adequate drainage so that plants can be heeled in to the depth at which they would be planted, rather than heeled in, in raised beds on top of the ground. He stated that the customer is often disappointed in the height of the plant he bought from a raised bed and that the "planted" display encourages the customer to buy a larger plant.

The plant should be marked with the name of the plant, its price and some information on its possible uses. It is also important to have some well-informed personnel on hand in the sales area to assist those who need and want help. He pointed out that the self-service approach works only if the plants are properly labeled, if the areas devoted to dif-

[Continued on page 70]

# Missouri Short Course at Columbia

By D. F. Millikan

The 1959 Missouri nurserymen's short course started with an informal get-together in the lobby of the Daniel Boone hotel, Columbia, about 7:30 o'clock Monday evening, June 22.

At a business meeting of the Missouri State Nurserymen's Association that was held at the conclusion of the short course, association officers were elected for 1959 as follows: S. R. McLane, J. C. Nichols Co., Kansas City, president; Bruce Barrett, vice-president; Dr. D. F. Millikan, University of Missouri department of horticulture, secretary-treasurer, and R. E. Taven, also of the university's department of horticulture, assistant secretary-treasurer.

Robert Eggers, Arrowhead Nurseries, Chesterfield, Mo., and Royer Wilkerson, Wilkerson Nursery, Columbia, were chosen delegates to the 1960 A. A. N. convention, with Dale Wild and Paul Stark, Jr., as alternates.

## Opening Session

After registration starting Tuesday morning, June 23, at the University of Missouri, Edwin J. Stark, president, Stark Bros. Nurseries, Louisiana, Mo., opened the meeting with a prayer. This was followed by a short talk by Dr. R. A. Schroeder, chairman of the university's department of horticulture.

Dr. Schroeder mentioned that landscaping is included in the horticulture department and that the department was fortunate in being able to employ Prof. R. E. Taven, formerly of the University of Nebraska faculty, to take over the teaching and other activities in this field after Prof. H. E. Mosher left the university last year.

July 1, the department's staff was to be expanded to include Willard Summers, a Missouri graduate with a M. L. A. degree from the University of Michigan. Professor Taven will then be in charge of nursery operations and landscaping of the campus, and Professor Summers will be responsible for design and the development of landscaping designs on the campus. He pointed out that there is an increasing activity in the landscaping field and, consequently, increasing teaching loads.

Dr. Schroeder discussed the new curriculum in agriculture; the greenhouse now under construction on the campus, and the projected new

building for the department of horticulture, which will offer unique facilities, including improved laboratories, for landscape work.

Dr. E. E. Chamberlain, director of the plant disease division, department of scientific and industrial research, Auckland, New Zealand, was the next speaker. Dr. Chamberlain supplemented his talk on New Zealand's industry and scenic attractions with slides.

He mentioned that on the tip of North island is a group of three islands, known as the Three Kings, that are of special botanical interest, since 11 new species and two new genera of plants have been found there. These plants are quite distinct from other flora in New Zealand.

On Great King, one of the rarest trees in the world, *Plectra myrthapaylisina*, is found. It is a handsome tree with outstanding ornamental possibilities. Originally, New Zealand was practically covered by forests. These had to be cleared for cattle grazing, but now the country has the highest man-made forest, featuring California pine.

## Dean Extends Welcome

At 10:45, the group was welcomed by Dr. J. H. Longwell, dean of the school of agriculture and director of the Missouri agricultural experiment station, Columbia. The dean expressed his pleasure in having the nurserymen's meeting at Columbia, stating that it would enable the nurserymen and the university staff to become better acquainted. He then

mentioned the problems of agriculture from production to marketing and commended the nurserymen on the excellent job they have done in landscaping rural and urban communities.

A panel discussion of various nursery problems was then presented. The panel consisted of Dr. T. W. Bretz, professor of forestry, covering diseases; Dr. J. Levitt, professor of botany, covering physiological disorders and nutrition; Dr. D. D. Hemphill, professor of horticulture, covering weed control, and Prof. Ron Taven, covering cultural problems.

The discussion opened with a few preliminary remarks by Dr. Hemphill concerning the use of chemicals for controlling weeds in nurseries. He mentioned chemicals showing great promise, including Karmex and Simazine. However, he noted that many herbicides, including Alana and Randox, cause too much injury for ornamentals. He concluded these remarks with the statement that something superior to Stoddard Solvent is needed and Atrazine is a possibility.

Dr. Levitt was then asked a question about frost killing, and this started a lively discussion. Particularly, the group expressed concern about the future of southern-grown stocks following planting in northern locations.

A question concerning elm leaf spot, a disease which has been rather widespread during the past two years, was directed to Dr. Bretz. Spraying was not generally recom-



Officers of the Missouri State Nurserymen's Association elected at the recent annual meeting and short course held at Columbia: Left to right, S. R. McLane, president; Bruce Barrett, vice-president, and D. F. Millikan, secretary.





Panel on nursery problems at the recent Missouri short course: Left to right, Prof. Ron Taven, Prof. D. D. Hemphill, Prof. J. Levitt and Prof. T. W. Bretz.

mended, as the disease is not prevalent most years. Other questions indicated a keen interest in pathological problems facing the nurseryman. This formal panel discussion dismissed for lunch at noon.

#### State Entomologist Report

Julius Anderson, state entomologist, opened the afternoon meeting by introducing his two new staff members, Dr. Charles Wright, plant pathologist, and Frank Joachim, entomologist. He said the budget of the entomology department was cut severely and, as a result, the department will be forced to curtail some of its operations.

Requests for nursery dealers' permits have tapered off, but this reduction is probably caused largely by limitations in personnel, which render the department unable to inspect all dealers. In actual count, according to the department records, there are 985 nursery dealers since last September, and this number will reach 1,100 if they can be serviced. He next elaborated on some important aspects of the quarantine duties of his department. Such pests as the fire ant, witchweed, pink bollworm, white-fringed beetle, gypsy moth and European chaffer have been kept out of Missouri so far. The Japanese beetle has been contained in the St. Louis area through the efforts of his department without damage or serious buildup.

He indicated that, because of the decreased funds available, the stations in southeast Missouri will be discontinued. In conclusion, he expressed his appreciation for the support that various members of the nursery association had given during the past legislative period.

#### Urges Native Plant Use

Dr. R. E. McDermott, University of Missouri, was next on the program and gave a most interesting and informative talk on the use of

native trees and shrubs in landscaping. He admitted that there may be great problems with native plants and that, from a commercial standpoint, the major problem may well be that of reproduction.

Factors such as poor seed set and climatic difficulties limit ecological adaptation of many species. Such plants as pin oak and sycamore are resistant to soot and smoke, while the beech cannot be planted in many areas because of its sensitivity to smoke.

Dr. McDermott then mentioned several plant species that deserve more attention in landscape planting. The scarlet oak, *Quercus coccinea*, is a beautiful tree with the most dazzling red color of all oaks in the fall. It should have an acid soil and be transplanted when young. The Shumard, willow and overcup oaks are others deserving greater recognition.

Native conifers with possibilities include the white juniper in the White river country. This tree looks like eastern red cedar and is bushy, rarely growing more than 10 to 12 feet high, with brilliant green foliage. It is of little value from a forestry point of view, but it should not be too difficult to propagate.

Bald cypress is a native conifer characterized by loss of leaves in winter. In the central part of the state, it will provide light shade and so will permit establishment of a bluegrass lawn beneath it. Bald cypress grows well on dry, drained areas and does not produce knees in upland soil.

#### River Birch

The river birch grows 40 to 50 feet tall and is found throughout the state. This is a remarkable tree with handsome foliage and fluffy, orange-colored bark. It grows rapidly and is easy to propagate and line out. Black gum, *Nyssa sylvatica*, has beautiful fall foliage, but needs pro-

tection against sun scald. The small yellowwood, *Cladrastis lutea*, is an interesting tree growing 25 to 30 feet tall with smooth birchlike bark and showy, white blooms. Red maple, *Acer rubrum*, is superior to silver maple and can stand a great deal more strain without breakage.

*Cornus alternifolia*, pagoda dogwood, is an impressive bush with alternate leaves. It has an Oriental appearance and a distinctive branching habit. Soapberry, *Sapindus drummondii*, has wide adaptability and blooms in July. Inasmuch as European and copper beeches are used rather extensively, Dr. McDermott raised the question, "why not the native species?" These species do not winterkill nor die back, yet are rarely seen.

Other trees and shrubs considered as having merit included shadbush, American plum, Indian cherry, blue ash and southern cucumber tree.

Dr. McDermott concluded his interesting talk by stating that the forestry department is planning an arboretum and will introduce native trees. After this initial step, shrubs and then vines will be added.

#### New Zealand Landscapes

Dr. Chamberlain delivered a second talk during the afternoon, this one dealing with landscaping in New Zealand. In his initial statement, he revealed that New Zealand landscapes are largely composed of shrubs and that these plants have high light requirements. For the most part, the flowers on the shrubs are white and inconspicuous, but this lack of color is often compensated for by the color of berries. The many species of coprosma (coffee family) are examples.

The wide range of leaf form, foliage color, habit and shape of New Zealand trees and shrubs make them ideal elements for varied and interesting landscapes. Most of these shrubs reach their maximum attractiveness if allowed to develop their natural shape, but some can stand heavy trimming for formal effects.

*Corkia cotoneaster*, a beautiful shrub, rarely without small yellow flowers or red berries, and *Pittosporum crassifolium* make excellent hedge plants, while one of the most exotic plants in the country's landscapes is the New Zealand cabbage tree, *Cordyline australis*.

Several members of the leguminosae family lend color to the New Zealand landscape, one of the most showy being the kowhai, *Sophora microphylla*, with spectacular sulphur-yellow flowers.

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# Tour Nurseries at Illinois Course

Monday, June 22, a day of intermittent rain, about 125 Illinois and out-of-state nurserymen and their wives registered at Southern Illinois University, Carbondale, for the third annual Illinois nurserymen's short course, sponsored June 22 to 24 by the Illinois State Nurserymen's Association in cooperation with Southern Illinois University and the University of Illinois, Urbana.

Upon registering, the nurserymen were invited to enter the weed-naming contest. Twenty-five weeds, in pots, were displayed, and it was announced that the entrant with the most correct answers would receive a free dinner at Tuesday night's steak fry.

Prof. William G. Marberry, Southern Illinois University botany professor, conducted campus tours in the morning and the afternoon, and pointed out plant materials of interest to nurserymen. A large portion of the campus has been kept in a wooded state and Professor Marberry pointed out that the plant materials in these areas are all native.

Exotic landscaping of the campus, particularly around the newer buildings, was the main attraction, however. Among other plant materials were fine specimens of *Magnolia grandiflora*, an attractive specimen of heavenly bamboo, or *Nandina domestica*, and a specimen of the Dawn redwood (*metasequoia*).

This last-named plant, explained Professor Marberry, is of special interest because the genus is over 200 million years old. Thought to be extinct until recent years, it was discovered growing in the Szechwan province of China in 1947. The specimen on the campus was planted in 1952 and is now over 25 feet high.

## Opening Session

After lunch and the afternoon tour, which was, to the disappointment of participating members, cut short by heavy rain, the attending nurserymen were welcomed to the meeting by Henry Lohse, Dixon, president of the I. S. N. A. He said that the high attendance at the summer short course meetings has proved that their educational value is highly appreciated by nursery operators.

He introduced Harvey Hartline, H. B. Hartline Farms, Makanda, the committee chairman, who also welcomed the group to southern Illinois and invited all the attending members to his home at Carbondale for a

get-acquainted hour prior to the evening of dinner and dancing to be held at the Carbondale Elks Club that night.

Professor Marberry was then introduced by Mr. Lohse as the first speaker. For his address on woody plant materials, Professor Marberry had brought to the auditorium several twigs from plants on the campus, including some of the American, Chinese, English and Japanese hollies, *Magnolia grandiflora* and bamboo.

He stated that garden club members from various parts of the state touring the campus often ask him "What is that plant? Where can I get it?" Many of the varieties that these club members have shown interest in, are, to the best of his knowledge, not available commercially, and he pointed out several that he had found to be hardy and thought could be grown profitably by commercial nurserymen.

The American holly, *Ilex opaca*, has withstood temperatures as low as 5 degrees below zero on the campus and is hardy at Boston, Mass, along the shores of Lake Erie and at Gary, Ind. Especially recommended by Professor Marberry were Old Heavy Berry, whose shiny leaves and heavy groups of berries make it highly attractive; Arden, and Croonenberg, all female varieties.

## Burford Holly Popular

Among the Chinese hollies (*Ilex cornuta*), the Burford variety is be-

ing heavily stocked by southern Illinois nurserymen. Professor Marberry believes that, although it does not fruit too well, its shiny leaves should make it a fast selling and highly profitable variety. He knows of hardy specimens growing at Decatur, Ill.; Elkhart, Ind., and St. Louis, Mo.

*Altaclarensis* is the best of the English holly (*I. aquifolium*) group, believes Professor Marberry, and the variety *Rederly* is second best. This and most other varieties of English holly do well in southern Illinois.

Japanese holly, *Ilex crenata*, is a fast-growing species that does well in sun or shade. Recommended to the group were *convexa*, a round-leaved variety; *microphylla*, a dwarf-growing variety with leaves one-half inch or less long, and the large-leaved *latifolia*. The speaker pointed out that most hollies do equally well in sun or shade; however, they do not like wet soil. Planted in rich, well-drained soil, these species will reward nurserymen with highly salable stock.

Another plant that he said attracts much attention on the campus is the *Magnolia grandiflora*. Growing to 100 feet, this evergreen variety is doing well on the University of Illinois campus, Urbana; at Bloomington, Ill., and at St. Louis, Mo. Lush, shiny dark green leaves about eight inches long and abundant white fragrant flowers more than six inches across make this a spectacular tree. The Dawn redwood, a deciduous conifer and rapid grower, is another tree



Speakers, officers and hosts, Illinois nurserymen's short course, at Carbondale, June 22 to 24: Left to right, front row, Dr. C. E. Ackerman, University of Illinois, Urbana; Dr. Donald Schoeneweiss, Illinois state natural history survey, Urbana; Prof. William G. Marberry, Southern Illinois University; F. G. Anderson, Anna Nursery, Anna, and Harvey B. Hartline, H. B. Hartline Farms, Makanda; back row, Arthur Simpson, Lakeside Nursery, Carbondale; Henry Lohse, president, I. S. N. A.; Edward P. Eickhof, Eickhof Nursery, Bensenville; Henry Seifert, Illinois division of plant industry; Harleigh Kemmerer, secretary, I. S. N. A., and Dr. Herbert Portz, Southern Illinois University.

that the professor thinks holds profitable possibilities for the commercial nurseryman.

### Hardy Bamboos

Noting the trend in landscaping toward Oriental gardens, the speaker suggested two varieties of bamboo that should be hardy for the far north: Golden bamboo, *Arundinaria aurea-sulcata*, growing to about 10 feet, and giant cane, *A. gigantea*, which reaches eight feet. Both attain maximum growth the first year, offer high profit possibilities when used as screens in landscaping and often bring \$1 or more as specimen plants. Considering the small amount of land required to grow a great number of specimens, Professor Marberry thought it wise for commercial nurserymen to experiment with them.

Because of their resistance to diseases and insects, the maples have become highly popular with the public. Two varieties recommended by Professor Marberry were the hedge maple (*Acer campestre*), which he feels grows better than the Norway maple and, in some areas, often keeps its leaves until Christmas, and the Japanese maple, *Acer palmatum*, which can be dwarfed for bonsai plantings.

Dr. James Mowery, associate professor and superintendent of the Illinois horticultural experiment station, Carbondale, was the next speaker. Using photographic slides to augment his explanation of the experiment station work and purpose, he held the interest of the group, although the majority of the station's current research deals only with fruits and vegetables. Of particular interest were his remarks regarding the materials used to cover the station's plastic greenhouse. Du Pont Weatherable Mylar film has been found superior to the 5-mil polyethylene film previously used.

In behalf of the university's school of agriculture, the next speaker, Dr. Herbert Portz, assistant dean of the school, extended a welcome. He then announced that Ferrer Sims, Sims Fruit & Nursery Farms, Hannibal, Mo., had won the weed-naming contest by naming correctly 20 of the 25 varieties.

As such, explained Dr. Portz, the school of agriculture at the university is only two years old and has a staff of 29 members. It was organized as a department in 1911, at which time the staff consisted of one man. Today the school is divided into four departments, agricultural industries, animal husbandry, forestry and plant industries. Of the last-named de-

partment, horticulture and agronomy are the major units.

### "Selling Yourself"

Prof. Robert M. Seepe, assistant professor, small business institute, Southern Illinois University, then presented a thought-provoking address entitled "Selling Yourself to Your Customer." He prefaced his remarks by stating that, through his 30 years' association with large business organizations, he has found that the same practices that enable big business to create a favorable public impression (or business image), also apply to small business.

In reviewing changes that have taken place in the business back-



Arthur Simpson, Lakeside Nursery, Carbondale, Ill., left, with Henry Lohse, president, Illinois State Nurserymen's Association, at the Lakeside Nursery during the Illinois short course held at Carbondale, June 22 to 24.

ground during the 20th century, Professor Seepe concluded that from 1900 to 1950 business generally did not care about the attitude of its customers. Concentrating upon high production, it looked to its own needs only.

Since 1950, business has come to realize the need to project a favorable image to its publics. Here Professor Seepe emphasized that there were indeed several publics that a businessman has to consider. These include customers, both active and potential; suppliers; the press; employees; bankers, and the local community. The present high production rate demands from business skillful sales and marketing programs. To support these programs business must assume the external viewpoint and present an image which is favorable to each of its publics.

To keep pace with modern business techniques the nurseryman should determine his publics, devel-

op a strong external viewpoint and take measures to project a favorable image to his publics. After the get-together at Harvey Hartline's Carbondale home, the day's activities were concluded with dinner and dancing at the Elks' Club.

### Tours on Tuesday

Tuesday was devoted to a tour of local nurseries and to viewing some of southern Illinois' scenic spots. The first stop on the tour was at Arthur Simpson's Lakeside Nursery, Carbondale, Ill., where nurserymen were impressed by the weed-free condition of his fields. Mr. Simpson explained that this condition was the result of two or three years of hard and persistent work to keep the weeds from going to seed. After this has been accomplished, weed control becomes a much easier job.

A fine stand of sweet gum evoked complimentary comments from visitors. By planting them three feet apart in 7-foot rows, Mr. Simpson finds that the trees develop into finer and more profitable specimens, because they are able to spread. In addition, this spacing permits cultivation with a disk tractor, which saves money.

On the way to F. G. Anderson's Anna Nursery, Anna, Ill., the tour passed Crab Orchard lake, winter haven for over 50,000 Canadian geese and home for many black bass weighing up to nine pounds. Also viewed were Woodlawn cemetery, where the first Memorial day services were held after the Civil War, and Bald Knob, the second-highest point in the state, on which a cross is being erected that will be higher than the Washington monument.

At the Anna Nursery, the group saw the results of the nursery's chemical weed control program. Mr. Anderson stated that for several years chemicals have been used for pre-emergence weed control in his evergreen plantings with varying degrees of success. After thorough investigations during the past two years, he chose Simazine 50-W for use in the program this year. The liquid form was chosen rather than the granular form, because the nursery already owned a row crop sprayer.

### Band Application Used

Plantings were free from weeds and were cultivated just prior to the application of the chemical. Simazine 50-W was applied in late April at the rate of two and one-half pounds to 50 gallons of water per acre. Application was made in bands 15 to 18 inches wide between rows of

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# Plan License Legislation At Mississippi Meeting

By C. O. Box

The 17th annual convention of the Mississippi Florists' and Nurserymen's Association held at the Eola hotel, Natchez, Miss., June 28 to 30 attracted more than 200 to an excellent series of meetings. While special programs were planned for retailers, others were provided for growers, and included in the topics covered at the growers' sessions were several of special interest to nurserymen and landscape men.

At a concluding business session of the entire group the following officers were elected for the ensuing year: Ray Bass, Lumberton, president; S. A. McInnis, Moss Point, and Harry Jacobs, Jackson, vice-presidents, and C. O. Box, Mississippi State College, State College, secretary-treasurer. The two new directors are Cad Shipp, Brookhaven, and Howard Adams, Bay St. Louis. They will serve with Percy Reeves, Hattiesburg; Vince Duro, Gulfport; Emmy Pope, Laurel, and Julien Moreton, Natchez, who will complete unexpired terms. Biloxi was selected as the site for the 1960 convention.

## Plan License Act

An important decision of the group, given form in a resolution passed at a business session, authorized the hiring of a legal firm to draft legislation for presentation at the next session of the state legislature which would enable the formation of a horticultural commission with authority to license florists, nurserymen, tree surgeons, nursery salesmen and landscape architects and powers of examination and inspection, in order to maintain high standards in these professions in the state. The board of directors was instructed to work with the legal advisers in drafting the proposal, following similar legislation in Louisiana.

Another resolution passed was to sponsor an emblem of membership in the association which could be used in publicizing the advantages of buying from member firms. The action called for the appointment of a committee of three members to design and execute an emblem and submit it to the membership within three months for selection and approval and subsequently to make the em-

blem available for use on stationery and for framing for office use.

Douglas Johnson, Winter Garden Ornamental Nursery, Inc., Waxahatchie, Tex., opened the program with a talk on foliage plant production. He summarized methods of production in Florida and stated that Florida was at the top in producing foliage plants due primarily to its climate. Good stock plants, a necessity for good cuttings and ultimate good plants, are produced in Florida under lath. The lath houses are provided with blower-type heaters and may be covered quickly with plastic in case of cold weather.

Mr. Johnson stated that two types of growers exist, specializing growers, producing not over three or four different items, and general growers, handling several different crops. He believes that the specialist generally produces the better-quality plant. A summary of Philodendron cordatum production was then given.

Ed Martin, landscape architect, Mississippi State College, presented a series of beautiful slides of European landscapes, taken while on a tour. He pointed out various ideas for consideration by American landscape architects. Chief among these were the excellent maintenance of landscapes in Europe; the great interest shown in plants and parks by Europeans, and the great use made of park areas, window boxes and street planters. In most cases Euro-

peans take advantage of rivers and other areas that are eyesores in many parts of America.

## Mississippi Potential

William Fisher, of George J. Ball, Inc., West Chicago, Ill., stated that Mississippi growers are limited to some extent in sales by a small population with a low income. However, he feels that the per capita income is rapidly rising in the state and that people are spending more money. Advantages of growing in Mississippi are low overhead, low taxes and less labor and heating costs. A disadvantage is the high temperature in the summers, requiring cooling of plants.

Mr. Fisher feels that while many Mississippi growers are not taking advantage of all their opportunities, there is a trend toward improvement. He suggested more year-around production of cut flowers, extension of the growing season with plastics, better rotation plans and a complete set of records.

Charles Girling, of Mississippi State College, outlined research to develop a special shipping carton for camellias. The pack, which has been fairly successful, is rigid and transparent, with six cups per carton to hold the wired blooms. At the present it is being sealed with tape, but plans call for development of a heat sealer.

## New Chemical

C. O. Box predicted controlled flowering and growth of crops by light waves and chemicals. He believes that these will become accepted practices as much as supplementary illumination and shading are today. The growers were reminded they need only look back a few years

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Officials of the Mississippi Florists' and Nurserymen's Association for 1959, shown at the group's recent Natchez convention: Left to right, Harry Jacobs, vice-president, florists' division; Joe Steinwinder, retiring president; Ray Bass, president, and S. A. McInnis, vice-president, nurserymen's division.



## Sorting the Woody Ornamentals

# Hydrangeas Include Old Favorites In Limited List Of Garden Species

By Donald Wyman

Horticulturist, Arnold Arboretum



Hydrangea paniculata Praecox

The hydrangeas are opposite-leaved shrubs and vines, native to North America and Asia. Like viburnum blooms, the individual flowers of hydrangeas are small and borne in clusters of varying sizes. In some there are both sterile, or ray, flowers and fertile flowers in the same cluster, the sterile ones making the plant conspicuous in bloom. Some of the viburnums also have this character, as is evidenced in the flowers of *Viburnum opulus* and *V. sargentii*. In fact, plants of these two genera were often confused by the earlier botanists who examined them for the first time.

Most of the species are easily propagated by cuttings. Some, unfortunately, too easily! In the past *Hydrangea paniculata grandiflora* made such a big nursery plant in such a short time it was widely oversold and overplanted.

There are approximately 45 species and varieties being grown by American nurserymen, but of these, 26 are horticultural varieties of the big-leaved hydrangea, *H. macrophylla*. Many of these are grown especially for greenhouse forcing. Twenty-four species and varieties of hydrangeas are being grown outdoors in the Arnold Arboretum; so it is not a large group and does not present too many selection problems. Since these plants were just recently at their height of bloom, a discussion of their relative merits is worth considering at this time.

### The Best Hydrangeas

*H. arborescens grandiflora*: An old favorite, found wild in a gorge near

Yellow Springs, O., sometime before 1900, the Hills of Snow hydrangea has completely sterile flowers formed in large rounded clusters that are four to seven inches in diameter. It blooms in late June and July and can grow as high as nine feet, but is usually seen below the eye level in height, chiefly because it is frequently pruned early in the spring to make it more moundlike. It will flower well, even though cut to the ground each spring.

This is the only variety of this species worth growing as an ornamental, and in good soils the flower heads may be so heavy that the stems will break. The more stems allowed to grow, the smaller are the flowers. Its general effect is to create a feeling of coolness in the summer, with its masses of snow-white blooms. The Arnold Arboretum plant is 53 years old and is proof that with proper pruning it can serve its purpose a long time.

*H. bretschneideri glabrescens*: A coarse, deciduous shrub up to about nine feet, native to northern China, hardy in zone 4. This smaller-leaved variety is probably a more fitting ornamental than the species. It forms a broad, rounded bush, attractive in flower because of sterile flowers on the margins of the 4 to 6-inch clusters. The original plant grown from seeds collected by Dr. E. Bretschneider in the mountains near Peking, China, in 1881, is still in splendid condition in the arboretum. It blooms in mid-June with the

*H. involucrata hortensis*: A low Japanese native, usually only about

three feet tall, this is only for southern gardens in zone 7. The flowers are mostly sterile and pinkish. However, it is highly probable that, with the more diversified varieties of *H. macrophylla* available, nurserymen will not want to try this species often. It is recommended here merely for trial in the south because of its low size.

### Popular Big-Leaved Type

*H. macrophylla*: The popular, big-leaved hydrangea has been grown in gardens of Europe for centuries and in gardens of the Orient for centuries before that. Formerly termed *H. hortensia* or *opuloides*, there are literally hundreds of forms being grown in Europe and Australia, where it is the most popular plant for Christmas decorations. The species is native to Japan, where many forms have been carried in gardens for generations.

There is a striking similarity among these large, globular-flowered horticultural forms. The flowers are usually about five to 10 inches in diameter, but some varieties are larger, and the plants grow about four to eight feet tall. The sterile flowers cover the entire head, and they are either single or double according to variety.

As the plant is hardy in zone 5, we have been able to grow a few forms off and on at the Arnold Arboretum in protected places, but they are not reliably hardy north of Rhode Island, southeastern Massachusetts

Illustrations with this article are from photographs supplied by the Arnold Arboretum, Jamaica Plain, Mass.

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and seashore gardens on down the coast; they are grown especially in the moist atmosphere of the Pacific northwest coast.

This species and *H. serrata* have frequently been confused, the latter being the seaside plant with more lush growth and lustrous, succulent foliage. However, the flowers of both may be pink or blue, depending on the medium in which they are grown. E. H. Wilson stated that he had been unable to find any hybridizing between the two species.

#### Respond to Soil Acidity

All varieties of this species are considered to have the capacity of changing the color of their flowers from blue or bluish to pink or pinkish, depending on the amount of aluminum and iron in the soil. Several commonly known greenhouse practices are used to control this color, and careful investigation has shown that the blueness of the flowers depends exactly on the acidity. Available aluminum in acid soils is the cause of blue flowers.

There are many varieties of this species in America today with which I am not at all familiar, and so it is impossible for me to segregate the best outdoor varieties. However, among the ones to consider might well be:

Bluebird—flowers blue, popular on Pacific coast.

Blue Prince—pink or blue.

Coerulea—perfect flowers, deep blue; ray flowers, blue or white.

Domotoi—pale pink or blue, double sterile flowers.

Mandschurica—pink or blue, stems dark purple to nearly black. This has lived over in a protected spot in the Arnold Arboretum.

Mariesi—rosy-pink ray flowers, two to three inches in diameter.

Nikko Blue, blue.

Otaksa—pink or blue, dwarfier than other varieties.

*H. paniculata grandiflora*: A far too common plant in American gardens, this is from Japan. It is valued for its vigor (it can grow up to 25 feet high), its ease of propagation and its large pyramidal clusters of mostly sterile flowers, which appear in late summer and remain on the plant for many months. They color purplish pink, then brown as they die. It is one of the three hardest species (zone 4). The larger blooms, up to 18 inches long and 12 inches at the base, are produced by strenuously reducing the number of growing shoots. The plant was first sent to America from Japan by George R. Hall, in 1861.

*H. paniculata praecox*: The original seedling is still growing in the Arnold Arboretum, being grown from seed in 1892 sent from Honshu,



*Hydrangea Quercifolia*

Japan. It blooms about three weeks before *H. paniculata grandiflora*. Both fertile and some sterile flowers are in its clusters. It has only a limited value, because of its earlier, less conspicuous bloom, but the flowers do appear in mid-July, at a time when few woody plants are in flower. Because of its many fertile flowers, this is not so coarse in general appearance as is Peegee, but it is difficult to find space for either one of these plants in the small garden.

#### Climbing Hydrangea

*H. petiolaris*: The climbing hydrangea of Japan and China is a true clinging vine and one of the best, growing as much as 75 feet tall. It flowers in mid-June, with the philadelphus, and has large, flat white

clusters six to eight inches in diameter, with small fertile flowers in the center and the larger sterile flowers on the cluster margin. It is perfectly hardy in zone 4. The reddish bark is of additional interest throughout the winter after the leaves have fallen.

This vine should not be confused with *Schizophragma hydrangeoides*, for to my way of thinking, the hydrangea is superior ornamentally. The two can be easily determined because the leaves of the hydrangea are lustrous above and the leaf margin is regularly serrate, while the leaves of the schizophragma are not lustrous and they are markedly coarsely dentate.

Mature vines can adhere easily to brick or stone surfaces and to tree trunks, for their rootlike holdfasts are most tenacious. Easily grown from seeds, newly transplanted plants require a year or two to start major growth. Because of this, it would seem that the climbing hydrangea might best be grown in cans in the nursery. It is without question the best of the vine hydrangeas and certainly one of the best woody vines for the north, worthy of being used a great deal more than it is at present. (This is now being considered by some botanists as a variety of *H. anomala*, which it resembles.)

*H. quercifolia*: The oak-leaved hydrangea is a native of the extreme southeastern United States, where it was found by John Bartram in 1791. It is considered hardy up to zone 5 and can be expected to grow up to six feet in height, although usually it is seen lower. In mid-July, the

[Continued on page 53]



*Hydrangea Arborescens Grandiflora*

# New York Meet Features Cornell Research Tours

By A. M. S. Pridham

At the summer convention of the New York State Nurserymen's Association held at Cornell University, Ithaca, July 6 and 7 and at Geneva, July 8, the preliminary events the evening of July 6 were a meeting of the board of directors and a tour of campus research projects for members and visitors.

The discussion at the directors' meeting centered about a program of policy and action for 1960 as submitted by the group's new executive secretary, Edwin Kirk. This program, in its formative stage, was later summarized for the membership. Fourteen points of action were recommended by Mr. Kirk, these including continued representation of the nurserymen at Albany and an active continuing contact with the three regional associations, as well as with local groups. Effective action through timely representation in two cases has already taken place to the satisfaction of the nurserymen concerned.

There were general agreement and support for the proposals among the directors, so that effective plans for 1960 should develop for report at the annual meeting during the short course at Cornell University December 1 to 3. New facilities at Statler Hall are being considered to provide improved meeting and exhibit space at the winter gathering.

New on the 1960 horizon is a revision of the New York state group's participation in the conference of the Eastern Regional Nurserymen's Association. Louis Weinstock, president of the latter group, has announced dates for the conference as January 5 to 7, the event being scheduled at the Statler-Hilton hotel, New York city. Willard M. Bond, Wyman's Garden Center, Framingham, Mass., will again be chairman.

## Plastic Greenhouses

The visitors' tour of research projects started with inspection of plastic greenhouse units now in their second year. The original wood frames are still serviceable, but the plastic has been replaced. During the late winter and spring of 1959, various heating systems were tested and the houses run at cool (50 degrees Fahrenheit) night temperature.

The plants in the houses were win-

ter-planted rooted cuttings of *Taxus media hicksi* from summer propagations of 1-year wood. The cuttings were well rooted and began growth during early spring. In late April, the cans were moved outdoors and the plastic houses were used for annual bedding plants. They thus gave double service and a longer growing season for *taxus* by utilizing more of the long days of the March to June 21 period. A Cornell bulletin by Raymond Sheldrake, department of vegetable crops, gives details of the construction of plastic greenhouse structures.

Growth of plants during summer is often reduced under greenhouse conditions by excessive temperature. Control of temperature is usually accomplished by natural ventilation, using both side and top openings. Other systems of cooling depend on using excess heat in the greenhouse to evaporate water. Rate and amount of evaporation depend on relative humidity, temperature and air movement.

Dr. Robert Langhans reported on leaf temperatures in relation to various cooling systems, as measured in 1958, when the average air temperature for 8 a. m. to 5 p. m. during the summer was 77.6 degrees F. and the relative humidity was 58.4 per cent. The calculated maximum cooling effect was 10.5 degrees F. Under normal ventilation, air temperature in the greenhouse was 84.4 and leaf temperature 85.4. The lowest leaf temperatures occurred with low-pressure intermittent misting and fan-forced air. In this case the leaf temperature became 76.5 degrees F. The familiar wet pad and fan combination resulted in 79.7 degrees F. for leaf temperature. Low-pressure mist as used for plant propagation gave leaf temperatures averaging 77.7 degrees F., which compares well with the more elaborate though more efficient cooling from mist and fan combination.

## Containers

Present experimental work with evergreens in containers was reported by Dr. A. M. S. Pridham. Fifty-six per cent of the *taxus* liners planted in containers during the summer and fall of 1958 died during the winter, 1958-59. Snow cover was abun-

dant and continued, but by early spring had turned to a 5 to 7-inch layer of ice. Soil in the containers was frozen. *Thuja* and *juniper* of similar age and treatment showed low loss, less than 1 per cent, except when rooted cuttings were planted in 4-inch paper pots and left out over winter. The greater susceptibility of *taxus* to winter injury as compared to *thuja* and *juniper* was in line with the experience of visiting nurserymen.

Fall planting of container-grown stock indicated that contoneaster removed from the container and planted survived 100 per cent, while plants left in containers and planted in the field were essentially 100 per cent killed in the limited tests of 1958-59. *Thuja* and *juniper* survived in field plantings 100 per cent whether removed from containers or planted out in the field in the container. Earlier tests indicated No. 10 cans rust out rapidly when they are set in soil.

## Weed Control

Weed control in containers was reported satisfactory when containers were set on polyethylene to prevent weed emergence between the containers. Soil used in the containers was steam sterilized. This is effective in killing quack grass and *artemisia* roots, as well as roots of other perennial weeds present at the time of sterilizing. Weed seeds are also killed by steam sterilization and by fumigation procedure; however, weed seeds blow in from other sources, so that after three months outdoors a crop of weed seedlings is often present.

In Cornell tests, Simazine and atrazine have been as effective as CIPC in granular form on the surface of flower pack and container soils. Rates of up to four pounds of active chemical are useful, and with narrow-leaved evergreens are not detrimental to growth at two to four pounds' level. However, mixing these same chemicals into the soil for potting of rooted cuttings is not recommended.

## In Field and Garden

Nurserymen saw the results of fall application of Simazine, neburon and CIPC in spray and granular form on *Taxus cuspidata*. Used at eight pounds of active chemical per acre, Simazine eliminated quack grass and many other weeds. Similar results with Simazine have been obtained with other crops, including narrow-leaved evergreens, roses and the ground covers, *euonymus*, *vinca*, *pachysandra* and *iberis*. Control of

[Continued on page 76]

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# NEW!

## EMERALD

### EUONYMUS SHRUBS

*The Hardy Broad-Leaved Evergreens*

**IN 4 DISTINCTLY DIFFERENT TYPES FOR  
FORMAL AND INFORMAL PLANTINGS**

#### EMERALD PRIDE

(Plant Patent No. 1073)

An excellent specimen shrub where dwarf evergreens are desired. Grows up to 4 ft. tall with a spread of about 3½ ft. Compact growth of branches and branchlets result in a uniform shape. Requires no support and little shearing. Glossy leaves of near dark forest green.

#### EMERALD CHARM

(Plant Patent No. 1079)

A compact, bushy shrub growing from a central stem with columnar growth of 4 to 5 ft. in height and compact spread of 18 ins. Dark green glossy leaves without flowers or berries. Sturdy character and appearance, uniform shape, natural upright form requiring no support and little shearing, make it an excellent shrub for ornamental use and hedge plantings.

#### EMERALD LEADER

(Plant Patent No. 881)

A decorative bushy evergreen which stands erect without support or shearing. Grows 4 to 5 ft. tall with full, compact spread of about 2½ ft. from one central stem. Beautifully clustered with bright orange berries coloring in late fall to contrast with its dark glossy green leaves.

#### EMERALD CUSHION

(Plant Patent No. 1112)

A very dwarf, dense, compact and slow-growing, broad-leaved evergreen which is neatly rounded and requires little shearing. 15 to 18 ins. high, its symmetrical spread of about 3 ft. is generally twice its height. A most versatile shrub which can be used on terraces, foreground and foundation plantings.

### EXTRAORDINARY CHARACTERISTICS OF ALL:

Resistant to scale and other diseases which attack ordinary Euonymus. Hardy at 20 degrees below zero. No winter burn. High resistance to drought and dog damage. Abundant fibrous roots easily transplanted. Carefree maintenance due to unique growth which requires no staking and little shearing. These are the unusual features that make EMERALD Euonymus most desirable where beauty, harmony and form are primary considerations.

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Cassinelli's Glendale Nurseries, Glendale, O.  
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Commercial Nursery Co., Decherd, Tenn.  
Mount Arbor Nurseries, Shenandoah, Ia.  
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Curtis Nurseries, Inc., Callicoon, N. Y.  
Rosedale Nurseries, Inc., Hawthorne, N. Y.



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## COVER ILLUSTRATION

### Hydrangea Petiolaris

The specimen of the climbing hydrangea, *Hydrangea petiolaris*, pictured on the cover, is growing on a tall American elm in front of the house on the Arnold Arboretum grounds long occupied by E. H. Wilson. It probably was planted by him nearly 50 years ago and has been thriving ever since. One of the best of the woody clinging vines, it blooms about mid-June on short lateral branches growing out of the main vine stem.

Some of the flowers are sterile, and it has been noted that the size of these individual flowers varies when the plant is grown from seeds. It is these which make the flower conspicuous. Normally they are about one and one-quarter inches in diameter, but some of the herbarium specimens at the Arnold Arboretum have these flowers up to one and one-half inches.

A few years ago, Clarence McK. Lewis called attention to a vine growing on his house at Skylands, N. Y., bearing ray flowers that averaged one and three-quarters inches in diameter. Thomas Everett, of the New York Botanical Garden, thought enough of this variant to name it Skylands Giant, publishing the name in the *Journal of the New York Botanical Garden* in 1952, where he noted that it was to be propagated and distributed. Whether or not this was done, it might be advisable to propagate asexually from such plants with large ray flowers, rather than to rely on the smaller type that is usually obtained when the plant is grown from seeds.

We have found it rather hard to establish a vine at the base of an American elm, where there is extreme competition with the tree roots for soil moisture and nutrients. It might be that in establishing a plant in such a situation, it could be planted in a wooden box of soft wood, which, though it would eventually rot away, would keep the young plant free from tree root competition long enough so that it would have plenty of opportunity to become firmly established.

Since this vine does not climb by twining, but grows more or less in a straight line by attaching its small rootlike holdfasts to the trunk, it does not damage the tree in any way, as is evidenced in the picture. Of course, it is excellent on brick and

[Concluded on page 22]



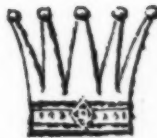
# Peterson and Dering presents *Opportunities for 1960*

## NEW INTRODUCTIONS



### "COVER GIRL" (PRR)

Pretty as a picture is this lovely new hybrid tea developed by Gordon J. Von Abrams. "Cover Girl" features long pointed buds, large high-centered blooms of bright orange touched with gold, long stems and glossy foliage.



### "CORAL CROWN" (PRR)

Newest descendant of world-famous "Fashion" is this delightful new floribunda in an exciting shade of coral red. Low and compact in growth, "Coral Crown" makes an excellent choice for borders and for a mass color effect. Developed by Gordon J. Von Abrams of P & D Research Laboratories.

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We are having a wonderful growing season, and we have available for the 1959-60 season the largest stock of top-quality evergreens that we have ever offered. We would be very happy to have you visit us at the nursery and see our stock growing in the fields. We are, at this time, using 2000 acres of good west Tennessee land to produce for you the very best in evergreens, and we think it would be worth your time to visit us if you are interested in the best stock available at reasonable prices.

### AMERICAN ARBORVITAE VARIETIES

(*Thuja occidentalis*) Each Per 10 Each Per 100

<b>Dark Green American Arborvitae</b>		
24 to 30 ins.	\$1.75	\$1.50
30 to 36 ins.	2.25	2.00
4 to 5 ft.	3.50	3.00
5 to 6 ft.	4.50	4.00
<b>Compacta erecta Globe Arborvitae</b>		
15 to 18 ins.	1.60	1.40
18 to 24 ins.	2.00	1.75
24 to 30 ins.	2.50	2.25
<b>Globe American Arborvitae</b>		
12 to 15 ins.	1.45	1.25
15 to 18 ins.	1.75	1.50
18 to 24 ins.	2.25	2.00
24 to 30 ins.	2.75	2.50
<b>Pyramidal American Arborvitae</b>		
18 to 24 ins.	1.60	1.35
24 to 30 ins.	1.80	1.65
30 to 36 ins.	2.50	2.25
3 to 4 ft.	3.00	2.75
4 to 5 ft.	4.00	3.50

### ORIENTAL ARBORVITAE VARIETIES

(*Thuja orientalis*)

<b>Baker Arborvitae</b>	Each Per 10	Each Per 100
24 to 30 ins.	\$1.35	\$1.20
30 to 36 ins.	1.60	1.40
3 to 4 ft.	2.00	1.75
4 to 5 ft.	3.00	2.50
<b>Berkmans Golden Arborvitae</b>		
12 to 15 ins.	1.25	1.00
15 to 18 ins.	1.40	1.20
18 to 24 ins.	1.70	1.50
24 to 30 ins.	2.25	2.00
<b>Blue Cone Arborvitae, compact pyramid</b>		
18 to 24 ins.	1.20	1.00
24 to 30 ins.	1.45	1.25
30 to 36 ins.	1.70	1.50
<b>Bonita Arborvitae, dwarf, full, green</b>		
15 to 18 ins.	1.35	1.20
18 to 24 ins.	1.70	1.50
24 to 30 ins.	2.25	2.00
30 to 36 ins.	2.75	2.50
<b>Excelsa Arborvitae</b>		
24 to 30 ins.	1.45	1.25
30 to 36 ins.	1.70	1.50
4 to 5 ft.	3.00	2.50
<b>Fruitlandi Arborvitae</b>		
18 to 24 ins.	1.70	1.50
24 to 30 ins.	2.25	2.00
<b>Mayhew Arborvitae</b>		
24 to 30 ins.	1.45	1.25
30 to 36 ins.	1.70	1.50
<b>Newark Arborvitae</b>		
24 to 30 ins.	1.45	1.25
30 to 36 ins.	1.70	1.50

<b>Cedrus atlantica</b>	Each Per 10	Each Per 100
2 to 3 ft.	\$1.75	\$1.50
3 to 4 ft.	2.75	2.50
4 to 5 ft.	3.75	3.50
5 to 6 ft.	4.75	4.50
<b>Cedrus deodara</b>		
2 to 3 ft.	1.75	1.50
3 to 4 ft.	2.75	2.50
<b>Cedrus libani</b>		
2 to 3 ft.	1.75	1.50
3 to 4 ft.	2.75	2.50
4 to 5 ft.	3.75	3.50

### JUNIPERS, SPREADING VARIETIES

All spreading Junipers many times trimmed, well filled and of specimen quality.

<b>Andorra Juniper</b>	Each Per 10	Each Per 100
12 to 15 ins.	\$1.25	\$1.10
15 to 18 ins.	1.60	1.40
18 to 24 ins.	1.90	1.75
24 to 30 ins.	2.50	2.25
30 to 36 ins.	3.00	2.75
<b>Chinensis procumbens Juniper</b>		
12 to 15 ins.	1.25	1.10
15 to 18 ins.	1.70	1.50
18 to 24 ins.	2.25	2.00
<b>Golden Canadian Juniper</b>		
15 to 18 ins.	1.70	1.50
18 to 24 ins.	2.25	2.00
<b>Hetzl glauca Juniper</b>		
12 to 15 ins.	1.20	1.00
15 to 18 ins.	1.45	1.30
18 to 24 ins.	2.00	1.75
24 to 30 ins.	2.50	2.25
30 to 36 ins.	3.00	2.75
<b>Plutzer Juniper</b>		
12 to 15 ins.	1.25	1.10
15 to 18 ins.	1.70	1.50
18 to 24 ins.	2.25	2.00
24 to 30 ins.	2.75	2.50
<b>Plutzer Juniper, Blue</b>		
15 to 18 ins.	1.70	1.50
18 to 24 ins.	2.25	2.00
<b>Plutzer Compact Juniper, Nick's</b>		
12 to 15 ins.	1.25	1.10
15 to 18 ins.	1.70	1.50
18 to 24 ins.	2.25	2.00
24 to 30 ins.	2.75	2.50
30 to 36 ins.	3.25	3.00
<b>Plutzer Compact Juniper, Kailay</b>		
12 to 15 ins.	1.25	1.10
15 to 18 ins.	1.70	1.50
18 to 24 ins.	2.25	2.00

### JUNIPERS, UPRIGHT VARIETIES

All many times sheared, specimen-quality evergreens.

<b>Juniper, virginiana glauca</b>	Each Per 10	Each Per 100
2 to 3 ft.	\$2.75	\$2.50
3 to 4 ft.	3.75	3.50
<b>Juniper, virginiana burki</b>		
2 to 3 ft.	2.75	2.50
3 to 4 ft.	3.75	3.50
4 to 5 ft.	4.75	4.50
<b>Juniper, virginiana canaerti</b>		
2 to 3 ft.	2.75	2.50
3 to 4 ft.	3.75	3.50
4 to 5 ft.	4.75	4.50
<b>Cupressifolia Juniper (Hillapire Juniper)</b>		
2 to 3 ft.	2.75	2.50
3 to 4 ft.	3.75	3.50
4 to 5 ft.	4.75	4.50
5 to 6 ft.	6.00	5.50
<b>Dundas Juniper</b>		
2 to 3 ft.	2.75	2.50
3 to 4 ft.	3.75	3.50
4 to 5 ft.	4.75	4.50
<b>Juniper, chinensis densa glauca, excellent, compact, upright, blue-green color.</b>		
2 to 3 ft.	2.00	1.75
3 to 4 ft.	2.75	2.50
4 to 5 ft.	3.75	3.50
<b>Fastigiata Juniper (Improved Irish), very heavy</b>		
24 to 30 ins.	1.50	1.25
30 to 36 ins.	1.75	1.50
3 to 4 ft.	2.25	2.00
4 to 5 ft.	2.75	2.50
<b>Greek Juniper (Juniper, excelsa stricta), well sheared</b>		
15 to 18 ins.	1.35	1.20
18 to 24 ins.	1.75	1.50
24 to 30 ins.	2.25	2.00
30 to 36 ins.	3.00	2.75
<b>Hetzl glauca Juniper, pyramids, staked and sheared pyramids</b>		
24 to 30 ins.	2.50	2.25
30 to 36 ins.	3.00	2.75
3 to 4 ft.	3.75	3.50
<b>Juniper, chinensis keteleeri</b>		
3 to 4 ft.	3.25	3.00
4 to 5 ft.	4.25	4.00
<b>Juniper, chinensis mascula</b>		
3 to 4 ft.	3.25	3.00
4 to 5 ft.	4.25	4.00
<b>Von Ehron Juniper, pyramids, staked and sheared pyramids</b>		
3 to 4 ft.	3.75	3.50
4 to 5 ft.	4.75	4.50

### MISCELLANEOUS CONIFERS

<b>Pine, nigra (Austrian Pine)</b>	Each Per 10	Each Per 100
18 to 24 ins.	\$1.50	\$1.25
2 to 3 ft.	2.25	2.00
3 to 4 ft.	3.25	3.00
4 to 5 ft.	4.25	4.00
<b>Pine, strobus (White Pine)</b>		
18 to 24 ins.	1.50	1.25
2 to 3 ft.	2.25	2.00
3 to 4 ft.	3.25	3.00
4 to 5 ft.	4.25	4.00
5 to 6 ft.	5.50	5.00

<b>Plume Cypress (Retinospora plumosa), sheared</b>	Each Per 10	Each Per 100
24 to 30 ins.	\$1.70	\$1.50
30 to 36 ins.	2.25	2.00
<b>Plume Cypress, Golden, sheared (Retinospora plumosa aurea)</b>		
24 to 30 ins.	1.75	1.50
30 to 36 ins.	2.25	2.00

## BROAD-LEAVED EVERGREENS

	Each Per 10	Each Per 100		Each Per 10	Each Per 100		Each Per 10	Each Per 100
<i>grandiflora</i>	\$1.25	\$1.00	<i>Ilex opaca howardi</i>	\$2.25	\$2.00	<i>Laurel, English</i>	\$1.75	\$1.50
2 to 3 ft.	1.75	1.50	2 to 3 ft.	3.25	3.00	2 to 3 ft.	2.25	2.00
3 to 4 ft.	1.50	1.25	3 to 4 ft.	4.25	4.00	3 to 4 ft.		
4 to 5 ft.	2.25	2.00	4 to 5 ft.	5.50	5.00	<i>Lonicera yunnanensis</i> (Chinese Evergreen Honeysuckle)	1.20	1.00
5 to 6 ft.	2.75	2.50	5 to 6 ft.			15 to 18 ins.	1.50	1.25
<i>decora lactea</i>	1.25	1.00	<i>Ilex opaca Hume No. 2</i>	2.25	2.00	18 to 24 ins.		
2 to 3 ft.	1.25	1.00	2 to 3 ft.	3.25	3.00	<i>Loropetalum chinensis</i> (Texas Fringe)	1.20	1.00
3 to 4 ft.	1.25	1.00	3 to 4 ft.	4.25	4.00	18 to 24 ins.	1.75	1.50
4 to 5 ft.	1.75	1.50	4 to 5 ft.	5.50	5.00	24 to 30 ins.	2.25	2.00
5 to 6 ft.			5 to 6 ft.	7.50	7.00	30 to 36 ins.		
<i>fruticosa</i>	1.25	1.00	<i>Ilex opaca Reynolds</i>	2.25	2.00	<i>Magnolia glauca</i>	1.75	1.50
2 to 3 ft.	1.75	1.50	2 to 3 ft.	3.25	3.00	2 to 3 ft.	2.25	2.00
3 to 4 ft.	1.25	1.00	3 to 4 ft.	4.25	4.00	3 to 4 ft.	2.75	2.50
4 to 5 ft.	1.50	1.25	4 to 5 ft.	5.50	5.00	4 to 5 ft.	3.50	3.25
5 to 6 ft.	1.25	1.00	<i>Ilex opaca Taber No. 3</i>	2.25	2.00	5 to 6 ft.	5.50	5.00
6 to 8 ft.	1.50	1.25	2 to 3 ft.	3.25	3.00	6 to 8 ft.		
<i>fortunei erectus</i>	1.25	1.00	3 to 4 ft.	7.50	7.00	<i>Magnolia grandiflora</i>	1.75	1.50
2 to 3 ft.	1.50	1.25	<i>Ilex vomitoria</i>	1.20	1.00	2 to 3 ft.	2.75	2.50
3 to 4 ft.	1.20	1.00	18 to 24 ins.	1.75	1.50	3 to 4 ft.	3.50	3.25
4 to 5 ft.	1.75	1.50	24 to 30 ins.	2.25	2.00	4 to 5 ft.	5.50	5.00
5 to 6 ft.	2.25	2.00	30 to 36 ins.	2.75	2.50	5 to 6 ft.	8.25	7.50
<i>patens</i>	1.20	1.00	4 to 5 ft.	3.75	3.50	<i>Nandina domestica</i>	.90	.75
2 to 3 ft.	1.75	1.50	5 to 6 ft.	5.50	5.00	15 to 18 ins.	1.20	1.00
3 to 4 ft.	2.25	2.00	<i>Ilex vomitoria Pride of Houston</i>	1.20	1.00	18 to 24 ins.	1.50	1.25
<i>radicans</i>	1.20	1.00	18 to 24 ins.	1.75	1.50	24 to 30 ins.	1.75	1.50
2 to 3 ft.	1.50	1.25	24 to 30 ins.	2.25	2.00	30 to 36 ins.	2.25	2.00
3 to 4 ft.	1.25	1.00	<i>Jasminum floridum</i>	1.20	1.00	3 to 4 ft.	1.50	1.25
4 to 5 ft.	1.50	1.25	15 to 18 ins.	1.50	1.25	<i>Osmanthus fortunei</i>	1.50	1.25
5 to 6 ft.	1.75	1.50	18 to 24 ins.	1.75	1.50	18 to 24 ins.	1.75	1.50
6 to 8 ft.	2.50	2.25	2 to 3 ft.	1.75	1.50	24 to 30 ins.	2.25	2.00
<i>angustifolia</i>	3.50	3.00	<i>Ligustrum lucidum</i> (Black Wax)	1.20	1.00	30 to 36 ins.		
2 to 3 ft.	1.20	1.00	18 to 24 ins.	1.50	1.25	<i>Photinia serrulata</i>	1.20	1.00
3 to 4 ft.	1.50	1.25	24 to 30 ins.	1.75	1.50	18 to 24 ins.	1.75	1.50
4 to 5 ft.	1.75	1.50	30 to 36 ins.	2.25	2.00	2 to 3 ft.	2.25	2.00
5 to 6 ft.	2.50	2.25	<i>Ligustrum Suwanee River</i>	1.50	1.25	3 to 4 ft.	1.50	1.25
<i>curtissii</i>	1.20	1.00	15 to 18 ins.	2.25	2.00	<i>Viburnum burkwoodi</i>	1.50	1.25
18 to 24 ins.	1.50	1.25	18 to 24 ins.	2.75	2.50	18 to 24 ins.	1.75	1.50
24 to 30 ins.	2.25	2.00	24 to 30 ins.	3.25	3.00	24 to 30 ins.	2.25	2.00
30 to 36 ins.			<i>Laurel, Carolina</i> (Cherry Laurel)	1.50	1.25	30 to 36 ins.	2.75	2.50
<i>seminudiflora</i>	1.50	1.25	2 to 3 ft.	1.75	1.50	<i>Viburnum cerasifolia</i>	2.25	2.00
2 to 3 ft.	1.75	1.50	3 to 4 ft.	2.25	2.00	30 to 36 ins.	2.75	2.50
3 to 4 ft.	2.25	2.00	4 to 5 ft.	2.75	2.50	<i>Viburnum juddi</i>	2.25	2.00
4 to 5 ft.	2.75	2.50	5 to 6 ft.			30 to 36 ins.		
<i>laevis</i>	1.20	1.00	<i>Laurel, nabeji</i> (Strap-leaved Laurel)	1.20	1.00	<i>Viburnum rhytidophyllum</i>	1.75	1.50
18 to 24 ins.	1.50	1.25	15 to 18 ins.	1.75	1.50	18 to 24 ins.	2.00	1.75
24 to 30 ins.	2.25	2.00	18 to 24 ins.	2.25	2.00	24 to 30 ins.	2.50	2.25
30 to 36 ins.	2.75	2.50	24 to 30 ins.	2.75	2.50	30 to 36 ins.	3.25	3.00
<i>convexa</i>	1.00	.80	30 to 36 ins.					
15 to 18 ins.	1.25	1.00	<b>CORNUS</b>			<i>Magnolia soulangeana</i> , trimmed plants, heavily branched and budded	\$2.00	\$1.75
18 to 24 ins.	1.50	1.25	<i>Cornus florida</i> (White Dogwood)	\$1.20	\$1.00	2 to 3 ft.	2.75	2.50
24 to 30 ins.	1.75	1.50	2 to 3 ft.	1.75	1.50	3 to 4 ft.	3.50	3.25
30 to 36 ins.	2.25	2.00	3 to 4 ft.	2.75	2.50	4 to 5 ft.	4.50	4.00
<i>heterophylla</i>	1.20	1.00	<i>Cornus florida rubra</i> (Red Dogwood)	1.75	1.50	5 to 6 ft.	5.50	5.00
18 to 24 ins.	1.50	1.25	2 to 3 ft.	2.75	2.50	6 to 7 ft.		
24 to 30 ins.	1.75	1.50	<i>Euonymus alatus compactus</i>	1.50	1.25	<i>Magnolia stellata</i>		
30 to 36 ins.	2.25	2.00	18 to 24 ins.	1.75	1.50	(Dwarf Star Magnolia)	2.00	1.75
<i>repandens</i> , excellent low-spreading variety	1.50	1.25	24 to 30 ins.	2.25	2.00	2 to 3 ft.	3.00	2.50
18 to 24 ins.	2.00	1.75	30 to 36 ins.	2.75	2.50	<i>Magnolia alexandrina</i>	2.25	2.00
<i>rotundifolia</i> , heavy, many times sheared	1.00	.80	<i>Magnolia nigra</i>	2.00	1.75	2 to 3 ft.		
15 to 18 ins.	1.20	1.00	2 to 3 ft.	2.75	2.50			
18 to 24 ins.	1.50	1.25	<b>COLD STORAGE</b> — We have available cold storage facilities for taking care of Magnolias or other nursery stock. In addition to our list prices, we will make the following minimum charges for storing B&B trees. If stock is to be stored past May 1, additional charges will be made.					
24 to 30 ins.	2.25	2.00	18 to 24 ins.	20c	3 to 4 ft.	30c	5 to 6 ft.	50c
30 to 36 ins.	2.75	2.50	24 to 30 ins.	25c	4 to 5 ft.	40c	6 to 8 ft.	75c
4 to 5 ft.	3.75	3.25	3 to 4 ft.					
5 to 6 ft.	4.00	3.50						
<i>seminudiflora</i>	1.20	1.00	The following stock is offered root wrapped in polyethylene bags and will be wrapped on machines for uniform size. Each plant will be tagged with a colored picture tag. Please order in multiples of 5 to a variety. The approximate earliest shipping date will be November 1.					
18 to 24 ins.	1.50	1.25	<b>FLOWERING SHRUBS</b>			<b>FRUIT STOCK</b>		
24 to 30 ins.	2.25	2.00	Pink-Flowering Almond, 18 to 24 ins.	\$0.60		Apple Trees, 11/16-in. cal.	Each	
30 to 36 ins.	2.75	2.50	Pink Althaea, 18 to 24 ins.	.50		Grimes Golden	Red June	\$1.00
<i>seminudiflora</i>	1.75	1.50	Purple Althaea, 18 to 24 ins.	.50		Red Delicious	Stayman's Winesap	
2 to 3 ft.	2.75	2.50	Red Althaea, 18 to 24 ins.	.50		Yellow Delicious		
3 to 4 ft.	3.75	3.50	White Althaea, 18 to 24 ins.	.50		Fig. Celeste, 2 to 3 ft.		.60
4 to 5 ft.	5.50	5.00	Pink Grape Myrtle, 18 to 24 ins.	.50		Fig. Everbearing, 2 to 3 ft.		.60
5 to 6 ft.	7.50	7.00	Purple Grape Myrtle, 18 to 24 ins.	.50		Peach Trees, 11/16-in. cal.	Indian Cling	1.00
<i>croonenburg</i>	2.25	2.00	Red Grape Myrtle, 18 to 24 ins.	.50		Belle of Georgia	J. H. Hale	
2 to 3 ft.	3.25	3.00	White Grape Myrtle, 18 to 24 ins.	.50		Early Elberta		
3 to 4 ft.	4.25	4.00	Forsythia (Golden Bell), 2 to 3 ft.	.50		Golden Jubilee		
4 to 5 ft.	5.25	5.00	Single Mock Orange, 18 to 24 ins.	.60		Pear Trees, 11/16-in. cal.	New Orient	1.25
5 to 6 ft.	7.50	7.00	Double Mock Orange, 18 to 24 ins.	.60		Bartlett	Sackel	
<i>seminudiflora</i>	1.75	1.50	Spiraea Anthony Waterer, 15 to 18 ins.	.60		Kieffer		
2 to 3 ft.	2.75	2.50	Spiraea vanhouttei, 18 to 24 ins.	.60		Grapes, 2-yr., No. 1	Niagara	.50
3 to 4 ft.	3.75	3.50	Weigela rosea, pink, 18 to 24 ins.	.60		Concord		
4 to 5 ft.	5.50	5.00	<b>SHADE TREES</b>			Delaware		
5 to 6 ft.	7.50	7.00	Chinese Elm, 6 to 8 ft.	1.00		<b>BUNDLES OF 2 FRUIT STOCK:</b>		
<i>seminudiflora</i>	2.25	2.00	Lombardy Poplar, 6 to 8 ft.	1.00		Apples, 7/16-in. cal.	\$1.25 per bundle	
2 to 3 ft.	3.25	3.00	Weeping Willow, 5 to 6 ft.	1.00		Red Delicious	Stayman's Winesap	
3 to 4 ft.	4.25	4.00	<b>FLOWERING TREES</b>			Yellow Delicious		
4 to 5 ft.	5.25	5.00	Red-Flowering Peach, 4 to 5 ft.	1.00		Peaches, 7/16-in. cal.	\$1.25 per bundle	
5 to 6 ft.	7.50	7.00	White-Flowering Peach, 3 to 4 ft.	1.00		Belle of Georgia	J. H. Hale	
<i>seminudiflora</i>	1.75	1.50	Redbud, 4 to 5 ft.	1.00		Elberta		
2 to 3 ft.	2.75	2.50	Mimosa, 4 to 5 ft.	1.00				
3 to 4 ft.	3.75	3.50						
4 to 5 ft.	5.25	5.00						
5 to 6 ft.	7.50	7.00						

**CARTWRIGHT NURSERY CO.** Collierville, Tenn. Phone: UL 3-2352  
Highway 72 - 57, 10 miles east of Memphis





## SHADEMASTER LOCUST

(Plant Patent No. 1515)

### PRINCETON UPRIGHT THORNLESS HONEY LOCUST

Picture shows a 2-yr. tree, 1 1/2-in. cal. Note its straight trunk, ascending branches and excellent root development.

#### THIS TREE REQUIRES NO STAKING

*The Finest Thornless Honey Locust  
Available*

ORDER THESE  
FROM OUR  
LICENSED GROWERS  
OR DIRECT  
FROM US



## SUMMERSHADE MAPLE

(Plant Patent No. 1748)

Our new, rapid-growing, heat-resistant, upright Norway Maple.

Picture shows 3-year tree, 1 3/4-in. cal. Its dark green foliage is larger and more leathery than in other Norway Maples and resists wind burn and insect injury. It is self-branching and quickly forms an excellent broad-based pyramidal head with definite leader maintained to the top.

*Its superior growth rate, form and improved foliage will make money for you.*

### RESERVE YOUR TREES NOW TO BE SURE YOU WILL HAVE THESE ALL-IMPORTANT VARIETIES!

At Princeton you will find in wide selection the finest trees obtainable, also a very complete general ornamental line.



## PRINCETON NURSERIES

Princeton, N. J.  
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### COVER ILLUSTRATION

[Concluded from page 18]

stone walls, as a rambling vine over rock outcroppings, and we even are trying it out as a closely growing, irregular ground cover where it has an opportunity to ramble over the ground and rock formations in the area. D. W.

### LANDSCAPE MEN CONVENE

Holding its 60th annual meeting at the Palmer House, Chicago, June 28 to July 1, the American Society of Landscape Architects discussed various aspects of the theme, "Landscape, a Vanishing Resource." The drastic and rapid withdrawals of open space resulting from urban expansion, highway development and specific recreational demands were pointed out, and suggestions for countering the influences were discussed.

Both urban replanning to reduce the pressure on the fringes of the city and conservation of suburban land space, including golf courses, were topics reviewed. Improved uses of present space, reduction of building density and redevelopment of business areas in cities to make them more attractive to shoppers were discussed.

Techniques of arousing public enthusiasm for conservation efforts and greater appreciation of nature were considered, results of specific efforts being cited. The desirability of forest preserve districts and means of bringing them into existence were described. Surveys to determine desirable areas for preservation were recommended. Signboard control along public highways was another major problem receiving attention. Training of recruits for the landscape architects' profession and the areas of profitable research in the field were other subjects.

Symposiums and workshop sessions gave ample opportunity for varied discussion, while films and slides accompanied several talks. A tour of major points of interest along Chicago's lake front, with a visit to a modern shopping center, was included in the program. Commercial exhibits and displays of illustrations showing professional and student plans for varied landscape projects about the country were other features of the event. Arthur Fitzgerald, Glenview, Ill., was chairman of arrangements.

OPENED recently at Westchester, N. Y., by S. Klein was a garden center of 30,000 square feet. Heading the new center is Frank Giordano.

# BAIER LUSTGARTEN AZALEALAND NURSERIES

Northern-grown, hardy azaleas, well-budded, sheared, heavy stock, field-grown, excellent foliage, over 200,000 for fall and spring delivery. All B&B.

	Each		Each		Each
<b>Amoena</b>		<b>Maxwelli</b>		<b>Favorite</b>	
8 ins. ....	\$0.75	8 ins. ....	\$0.75	8 ins. ....	\$0.75
10 ins. ....	1.00	10 ins. ....	1.00	10 ins. ....	1.00
12 ins. ....	1.25	12 ins. ....	1.25	12 ins. ....	1.25
15 ins. ....	2.00	15 ins. ....	2.00	15 ins. ....	2.00
18 ins. ....	2.50	18 ins. ....	2.50	18 ins. ....	2.50
<b>Coral Bells</b>		<b>Louise Gable</b>		<b>Polaris</b>	
8 ins. ....	.75	8 ins. ....	1.00	8 ins. ....	.75
10 ins. ....	1.00	10 ins. ....	1.25	10 ins. ....	1.00
12 ins. ....	1.25	12 ins. ....	1.50	12 ins. ....	1.25
15 ins. ....	2.00	15 ins. ....	2.50	15 ins. ....	2.00
<b>Hinodegirl</b>		<b>Rose Bud</b>		<b>Beethoven</b>	
Our Hinos are very dark red.		8 ins. ....	1.00	8 ins. ....	.75
8 ins. ....	.75	10 ins. ....	1.25	10 ins. ....	1.00
10 ins. ....	1.00	12 ins. ....	1.50	12 ins. ....	1.25
12 ins. ....	1.25	15 ins. ....	2.50	15 ins. ....	2.00
15 ins. ....	2.00	18 ins. ....	3.50	18 ins. ....	2.50
18 ins. ....	2.50	24 ins. ....	6.50	20 ins. ....	3.50
20 ins. ....	3.50	<b>Rose Greely</b>		<b>Johann Strauss</b>	
24 ins. ....	5.00	8 ins. ....	1.00	8 ins. ....	.75
30 ins. ....	6.00	10 ins. ....	1.25	10 ins. ....	1.00
36 ins. ....	7.50	12 ins. ....	1.50	12 ins. ....	1.25
<b>Orange Beauty, Kurume</b>		15 ins. ....	2.50	15 ins. ....	2.00
8 ins. ....	.75	18 ins. ....	3.50	18 ins. ....	2.50
10 ins. ....	1.00	24 ins. ....	6.50	20 ins. ....	3.50
12 ins. ....	1.25	<b>Addy Wery</b>		<b>Lilacina</b>	
15 ins. ....	2.00	8 ins. ....	1.00	8 ins. ....	.75
18 ins. ....	2.50	10 ins. ....	1.25	10 ins. ....	1.00
<b>Hino-Crimson</b>		12 ins. ....	1.50	12 ins. ....	1.25
8 ins. ....	.75	15 ins. ....	2.50	15 ins. ....	2.00
10 ins. ....	1.00	18 ins. ....	3.50	18 ins. ....	2.50
12 ins. ....	1.25	<b>Apple Blossom, Kurume</b>		20 ins. ....	3.50
15 ins. ....	2.00	8 ins. ....	.75	24 ins. ....	5.00
18 ins. ....	2.50	10 ins. ....	1.00	<b>Kaempferi</b>	
<b>Snow</b>		12 ins. ....	1.25	Hardest of all azaleas; sheared,	
8 ins. ....	.75	15 ins. ....	2.00	well-budded, heavy.	
10 ins. ....	1.00	18 ins. ....	2.50	<b>Othello, Salmon Beauty, Fedora and</b>	
12 ins. ....	1.25	20 ins. ....	3.50	<b>Carmen</b>	
15 ins. ....	2.00	24 ins. ....	5.00	8 ins. ....	.75
<b>Ledifolia Alba</b>		<b>Daybreak, Kurume</b>		10 ins. ....	1.00
8 ins. ....	.75	8 ins. ....	.75	12 ins. ....	1.25
10 ins. ....	1.00	10 ins. ....	1.00	15 ins. ....	2.00
12 ins. ....	1.25	12 ins. ....	1.25	18 ins. ....	2.50
15 ins. ....	2.00	15 ins. ....	2.00	20 ins. ....	3.50
18 ins. ....	2.50	18 ins. ....	2.50	24 ins. ....	5.00
20 ins. ....	3.50	20 ins. ....	3.50	30 ins. ....	6.00
24 ins. ....	5.00			36 ins. ....	7.50

Rooted cuttings of all above varieties ready November 1. \$50.00 per 1000.

1-yr., T., \$125.00 per 1000.

Our azalea beds are treated for shipment outside Japanese Beetle zone.

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WRITE FOR CATALOG

# \*20 MILLION TREES A YEAR! \*NOW OVER 35 MILLION!

## MUSSER TREES BUILD SATISFIED CUSTOMERS —

Because of—Selected Seed, Good Heredity Characteristics, Scientific Methods of Planting and Propagation, Heavy Roots, Sturdy Tops and Rapid Growth —Musser Trees grow and thrive where others may fail to survive.

# MUSSER TREES Grow Best!



## Good Tree Stock Pays Dividends

Musser Forests takes pride in supplying vigorous, high-quality nursery stock. To keep abreast with increasing costs of production the most modern equipment is used. Experienced personnel are employed, many with over 20 years' service. . . . Our production has increased year after year to keep pace with the ever-increasing demand for Musser trees.

## OUR TREMENDOUS VOLUME ENABLES US TO SAVE YOU MONEY

	Per 100	Per 1000		Per 100	Per 1000
<b>* SPECIAL STRAIN SCOTCH PINE</b>					
Very best Christmas tree strain. Grown from seed collected by our own men from selected parent trees. Exceptionally healthy, sturdy, straight-stemmed. We have all other best strains Scotch Pine.					
2-yr., S., 4 to 8 ins.....	\$ 6.00	\$ 30.00			
3-yr., S., 8 to 16 ins.....	9.00	45.00			
4-yr., T., 8 to 12 ins.....	20.00	100.00			
<b>* MUGHO PINE</b>					
3-yr., S., 3 to 5 ins.....	7.00	35.00			
5-yr., T., 5 to 7 ins.....	30.00	.....			
<b>* AUSTRIAN PINE</b>					
2-yr., S., 3 to 6 ins.....	5.00	25.00			
3-yr., S., 8 to 12 ins.....	9.00	45.00			
<b>* BLACK HILLS SPRUCE</b>					
3-yr., S., 5 to 10 ins.....	7.00	35.00			
4-yr., S., 8 to 12 ins.....	10.00	50.00			
5-yr., T., 8 to 12 ins.....	24.00	120.00			
<b>* NORWAY SPRUCE—Fast-growing</b>					
2-yr., S., 5 to 10 ins.....	7.00	35.00			
3-yr., S., 10 to 14 ins.....	10.00	50.00			
3-yr., T., 6 to 12 ins.....	15.00	75.00			
5-yr., T., 12 to 18 ins.....	35.00	.....			
<b>* WHITE SPRUCE</b>					
3-yr., S., 5 to 12 ins.....	9.00	45.00			
4-yr., T., 10 to 15 ins.....	20.00	100.00			
<b>* COLORADO BLUE SPRUCE</b>					
3-yr., S., 4 to 8 ins.....	9.00	45.00			
4-yr., T., 4 to 8 ins.....	18.00	90.00			
<b>* DOUGLAS FIR</b>					
2-yr., S., 5 to 10 ins.....	7.00	35.00			
3-yr., S., 8 to 12 ins.....	11.00	55.00			
<b>* AMERICAN ARBORVITAE</b>					
3-yr., S., 8 to 12 ins.....	8.00	40.00			
<b>* CANADIAN HEMLOCK</b>					
2-yr., S., 3 to 6 ins.....	10.00	50.00			
3-yr., T., 6 to 8 ins.....	25.00	.....			
5-yr., T., 8 to 14 ins.....	35.00	.....			
<b>* CONCOLOR FIR</b>					
2-yr., S., 3 to 6 ins.....	9.00	45.00			
<b>* JAPANESE YEW</b>					
<i>Taxus cuspidata capitata—upright pyramidal</i>					
2-yr., S., 3 to 6 ins.....	\$20.00	\$100.00			
3-yr., S., 4 to 8 ins.....	30.00	200.00			
<i>Taxus cuspidata—spreading</i>					
1-yr., T., 5 to 6 ins.....	20.00	150.00			
2-yr., T., 6 to 8 ins.....	30.00	250.00			
3-yr., T., 8 to 12 ins.....	40.00	350.00			
<i>Taxus hicksii—upright</i>					
1-yr., T., 5 to 7 ins.....	25.00	175.00			
2-yr., T., 8 to 10 ins.....	40.00	300.00			
<i>Taxus brownii—upright</i>					
1-yr., T., 4 to 6 ins.....	25.00	175.00			
2-yr., T., 6 to 8 ins.....	40.00	.....			
<i>Taxus cuspidata capitata—spreading</i>					
From side cuttings.					
*3-yr., T., 8 to 12 ins.....	40.00	300.00			
*(Heavy Liner)					
<i>Taxus intermediata—spreading</i>					
1-yr., T., 4 to 6 ins.....	25.00	175.00			
*3-yr., T., 8 to 12 ins.....	40.00	.....			
*(Heavy Liner)					
<i>Taxus andersonii—spreading</i>					
1-yr., T., 5 to 7 ins.....	20.00	150.00			
<b>* JUNIPER HETZI GLAUCA—Blue Pfeiffer</b>					
1-yr., T., 5 to 7 ins.....	25.00	200.00			
<b>* GLOBE ARBORVITAE</b>					
<i>Woodwardii—dark green</i>					
1-yr., T., 4 to 6 ins.....	30.00	250.00			
<i>Hovey's—green</i>					
1-yr., T., 4 to 6 ins.....	25.00	300.00			
<b>* PYRAMIDAL ARBORVITAE—Compacta</b>					
1-yr., T., 5 to 7 ins.....	25.00	200.00			
<b>* JAPANESE HOLLY</b>					
<i>Ilex retundifolia</i>					
1-yr., T., 5 to 6 ins.....	20.00	.....			
*4-yr., TT., 12-in. spread.	\$1.75 each	.....			
*(Sold in lots 5 or more)					
<b>* AMERICAN HOLLY—Ilex opaca</b>					
1-yr., T., 10 ins. and up.....	50.00	400.00			
(Sexes separate)					
<b>* WHITE DOGWOOD</b>					
Seedlings, 12 to 18 ins.....	10.00	80.00			

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— All stock is carefully graded and packed —

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LIST — also famous CHRISTMAS TREE GROWERS' GUIDE.

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INDIANA, PENNA.

## COMING EVENTS

### MEETING CALENDAR

August 4 to 7—Michigan Association of Nurserymen, nursery and landscape management conference and nursery tour, Michigan State University, East Lansing.

August 5—New Jersey Association of Nurserymen, summer meeting, Princeton Nurseries, Princeton, N. J.

August 5 to 7—West Virginia Nurserymen's Association, summer meeting, Daniel Boone hotel, Charleston, W. Va.

August 6 and 7—Iowa Nurserymen's Association, summer meeting, Shenandoah Nurseries, Shenandoah, Ia.

August 9 to 11—National Mail Order Nurserymen's Association, Inc., summer meeting, Hotel La Salle, Chicago, Ill.

August 11 to 13—Ohio Nurserymen's Association, summer meeting, Lake Erie College, Painesville, O.

August 12 — Pennsylvania Nurserymen's Association, summer meeting, Hershey park, Hershey, Pa.

August 12 — Massachusetts Nurserymen's Association, summer meeting, Corliss Bros., Inc., Ipswich, Mass.

August 16 to 18 — Virginia Nurserymen's Association, summer meeting, the Cavalier hotel, Virginia Beach, Va.

August 16 to 19—Texas Association of Nurserymen, annual convention, Fort Brown memorial center, Brownsville, Tex.

August 17 to 21—National Shade Tree Conference, annual meeting, Statler hotel, Detroit, Mich.

August 19 — New England Nurserymen's Association, summer meeting, Harkness memorial park, Waterford, Conn.

August 23 to 25—Southern Nurserymen's Association, annual convention, Robert Meyer hotel, Jacksonville, Fla.

August 24—Nebraska Association of Nurserymen, summer meeting, Marshall Nurseries, Arlington, Neb., and Plumfield Nurseries, Inc., Fremont, Neb.

August 30 to September 5 — A. A. N. Nursery Management Conference, Sagamore Conference Center, near Raquette Lake, N. Y.

September 1 to 3—Arkansas State Nurserymen's Association, convention, Velda Rose motel, Hot Springs, Ark.

September 3 and 4—Wisconsin Nurserymen's Association, summer meeting, Nepco Lake Nursery, Port Edwards, Wis., and Leland Jens Nursery & Landscape Co., Wisconsin Rapids.

September 22 to 24—California Association of Nurserymen, annual convention, Lafayette hotel, Long Beach, Calif.

### ARKANSAS CHANGE

Change in plans for the convention of the Arkansas State Nurserymen's Association has been announced by Sam Peace, president. Dates selected for the event are September 1 to 3, instead of 10 to 12 as previously given. The Velda Rose motel, Hot Springs, Ark., the site of the program, is a convention motel, with a big ballroom and ample space for exhibits, while recreational facilities



# WE INVITE YOU TO ATTEND THE TEXAS ASSOCIATION OF NURSERYMEN'S 22nd Annual Convention and Trade Show

Brownsville, Texas

108 Exhibits  
Fort Brown Memorial Center

3 days of fun and frolic  
August 16, 17, 18 and 19, 1959

For information on housing reservations and convention registrations, write:

**B. R. Fullingim, Executive Secretary**  
Texas Association of Nurserymen  
Lobby Suite, Commodore Perry Hotel  
Austin 1, Texas

include lake swimming and boating.  
All nurserymen who wish to attend  
are welcome.

## TEXANS' PROGRAM

Early plans announced for the convention of the Texas Association of Nurserymen indicate that special accent has again been placed on the social aspects of the affair. The Fort Brown Memorial Center, Brownsville, Tex., will be the location of the convention, scheduled for August 16 to 19. A trade show is also an important part of this meeting.

Special events are called for on three evenings. Sunday, August 16, a beach party on Padre island will start at 4 p. m. and will include swimming, fishing, a shrimp boil and dancing. Monday evening brings a fun night in Mexico, buses leaving Brownsville at 8 p. m. Wednesday, the past presidents' banquet and dance is also scheduled in Mexico, at the Matamoros Casino.

Noon events include a keynote luncheon on Monday, a ladies' luncheon and a bachelors' luncheon, both at the Fort Brown Memorial Center, on Tuesday, and a buffet barbecue on the patio of the center on Wednesday.

A tour of missions at Matamoros

## AN INVITATION TO THE ARKANSAS NURSERYMEN'S ASSN. ANNUAL STATE CONVENTION

September 1, 2 and 3

**Velda Rose Motel, Hot Springs, Ark.**

The convention will be held at one of the south's finest motels. It is a real "convention motel" with a big ballroom and plenty of exhibit space. Anyone wishing to have a booth should write: Dale Basham, Mountainburg, Ark.

**EVERYONE IS WELCOME — OUT-OF-STATE  
NURSERYMEN, TOO  
COME TO LEARN, COME TO RELAX**

- Educational Program
- Bingo Party
- Banquet
- Swimming
- Exhibits
- Boating

Please make room reservations directly with Velda Rose Motel, Hot Springs, Ark.

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SHADE TREES**

**SHRUBS, VINES  
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### One and Two-Gallon Containers

Japanese Blood-leaved Maple, grafted  
Azalea, in varieties  
Cotoneaster horizontalis  
Rivers' Purple Beech, 2 to 3 ft. and 3 to 4 ft.  
Enkianthus campanulatus  
Euonymus, in varieties  
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Hydrangea Nikko Blue and Climbing (petiolaris)  
Juniperus, in varieties  
Magnolia, in varieties  
Flowering Almond  
Rhododendron Hybrids, in varieties, grown from cuttings  
Sciadopitys verticillata  
Viburnum, in varieties

Many other assorted flowering shrubs.

Also a complete list of B&B material and  
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**TAXUS** In varieties,  
certified for western shipment.

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Basic principles, including details of practice. New techniques of propagation, producing hybrids and seed production. Propagation of specific plants, propagating structures and mist propagation and its control. 413 p., 183 illus. (1967).....\$7.50

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## LINING-OUT STOCK

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In Wide Assortment

Acer atropurpureum Bloodgood, Azaleas, Berberis, Cornus florida rubra, Evergreens, Ilex, Magnolias, Hybrid Rhododendrons, Taxus, in variety, etc., in 1, 2 and 3-yr. transplants at competitive prices. Write for list on business stationery.

### DEERFIELD NURSERIES

Deerfield, N. J.

will be made Sunday morning. Tuesday evening is left open.

In addition to these affairs there will be a program of speakers. The advisory board of the T. A. N. garden center division will meet at 2 p. m. Sunday, and the Texas Landscape Association will hold its annual meeting at the same time. Business sessions of the T. A. N. are scheduled for 2 p. m. Monday and Wednesday, election of officers being held on the second occasion.

### MAIL-ORDER PROGRAM

Plans for the annual convention of National Mail Order Nurserymen's Association, Inc., are well under way. Following is a schedule of activities for the meeting, which will be held August 9 to 11 at the Hotel La Salle, Chicago, Ill.:

#### AUGUST 9

1 p. m.—Registration.  
3 p. m.—Board of directors' meeting, officers' suite.

#### AUGUST 10

8 a. m.—Registration.  
9 a. m.—Business session; call to order by President Robert Bauge, Judson Wholesale Nursery, Bristol, Ind. Officer and committee reports, appointments of committees.

10 a. m.—"Creative Thinking and Brainstorming," talk by Whitt Northmore Schultz, public relations department, Illinois Bell Telephone Co., Chicago.

11 a. m.—"Market Research—A Key to Increased Sales," talk by Max E. Brunk, professor of marketing, department of agricultural economics, Cornell University, Ithaca, N. Y.

12:30 p. m.—Lunch; talk, "It's Fun to Face Facts," given by De Loss Walker, Chicago.

2:15 p. m.—"Idea Trading Post" with Jack Foster, Henry Field Seed & Nursery Co., Shenandoah, Ia., serving as moderator.

3:15 p. m.—"Advertising Inquiries and How They Influence Business," by F. L. Frizzell, Frizzell Advertising Agency, Minneapolis, Minn.

4 p. m.—"Can Your Catalogs Be Improved?" by Elvin McDonald, editor, eastern division, Flower & Garden Magazine, Levittown, N. Y.

4:45 p. m.—Social hour, courtesy Flower Grower magazine.

#### AUGUST 11

9:15 a. m.—"A Marketing Research Program for the Mail-order Nurseryman," by Professor Brunk.

10:15 a. m.—"Current Postal and Legislative Matters," by Ray Brush, administrative assistant, American Association of Nurserymen.

10:45 a. m.—Final business session; initial action on proposed market research project; election of officers.

### SOUTHERNERS' SCHEDULE

The tentative program for the annual convention of the Southern Nurserymen's Association has been announced. Following is a schedule of the planned activities which are to be staged August 23 to 25 at

**see tomorrow's products**

at the

# LAWN, GARDEN & OUTDOOR LIVING DIVISION

of the 14th annual

## NATIONAL HARDWARE SHOW

It's the show buyers know as the most complete and diversified trade show in America. More than 40,000 attend annually to learn what's new in lawn, garden, outdoor living and light farm products.

This year over 1,000 manufacturers will unveil tomorrow's products, packages, promotions and profit-offerings. So plan today to attend. Fill out and mail the coupon for your free badge of admission.



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**NEW YORK CITY**

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☐ Importer-Exporter    ☐ Mfgs' Agent    ☐ Manufacturer    ☐ Other  
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One of the largest blocks of hardy, northern-grown Ilex. Heavy, well-sheared plants with exceptionally good color. Prices are each per 100 (25 or more). Write for special quotation on large quantities.

18 to 24 ins. ....	\$3.00
24 to 30 ins. ....	3.75
30 to 36 ins. ....	5.50
3 to 3½ ft. ....	6.50

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the Robert Meyer hotel, Jacksonville, Fla.:

### AUGUST 23

9 a. m.—Research workers' conference, English room; Dr. Tokuji Furuta, Alabama Polytechnic Institute, Auburn, chairman.

2 p. m.—Registration.

6 p. m.—Exhibitors' hospitality hour.

7:30 p. m.—Buffet dinner, Windsor room; H. Wayman Parker, speaker.

### AUGUST 24

8 a. m.—State presidents' breakfast, English room; James Patterson, Patterson Nursery, Albany, Ga., 1958-1959 president, Georgia State Nurserymen's Association, presiding.

9:30 a. m.—Business meeting, North Windsor room.

9:50 a. m.—President's address, Hubert A. Nicholson, Commercial Nursery Co., Decherd, Tenn.

10:15 a. m.—Announcements and committee assignments.

10:20 a. m.—Research workers, North Windsor room; Dr. Furuta, and Dr. E. W. McElwec, University of Florida, Gainesville, speakers.

11:25 a. m.—"Grades and Standards Equal Quality," by Charles Bush, Florida state plant board, Gainesville.

12:30 p. m.—Lunch, South Windsor room; address, "Sell or Else," given by G. H. W. Schmidt, Florida Ford Tractor Co.

2:30 p. m.—Visit exhibits and tour United States Navy carrier base.

### AUGUST 25

8 a. m.—American Association of Nurserymen breakfast, Oxford room; Richard White, executive vice-president, A. A. N., speaker.

9:30 a. m.—Business assembly, North Windsor room.

9:45 a. m.—Committee reports; election of officers.

11:15 a. m.—Greetings from Governor LeRoy Collins of Florida.

6 p. m.—Hospitality hour.

7:30 p. m.—Past presidents' banquet, Windsor room; address, "Life in Soviet Union," given by Hon. Harry Philpot, vice-president, University of Florida; presentation of new officers, followed by entertainment and dancing.

Special plans for the wives and children of the nurserymen attending the convention include a trip to Marineland, with lunch at the Dolphin restaurant on the Atlantic ocean and a tour of old St. Augustine on August 24. A trip to the Jacksonville zoo is scheduled for the next day.

### VIRGINIA DETAILS

Details for the summer meeting of the Virginia Nurserymen's Association have been announced by Charles L. Otey, secretary-treasurer. A schedule of events for the conference, which will be held August 16 to 18 at the Cavalier hotel, Virginia Beach, Va., follows:

### AUGUST 16

2 p. m.—Registration, foyer, Cavalier room.

3 p. m.—Reception and cocktails for the ladies, parlor suite.

6 p. m.—Social hour, pool loggia.

7 p. m.—Dinner, Virginia, Colonial room. Evening entertainment, Hunt room.

### AUGUST 17

9 a. m.—Meet in hotel lobby for visit

# Build Your Fall Business with IMPORTED DUTCH BULBS

**COLLECTION No. 1, \$23.75**

(List Price \$25.90)

**650 Bulbs**

650 bulbs; cost \$23.75, sell for  
 200 Bartigon, red  
 100 Golden Harvest, yellow  
 100 Princess Elizabeth, pink  
 50 White Queen, white  
 50 Dillenburg, orange  
 50 Queen of the Night, deep purple  
 100 Mixed colors, all shades

650 bulbs cost \$23.75, sell for \$40.00 (retail for 10c ea. or 75c per dozen. Your markup, 40%)

**COLLECTION No. 2, \$31.00**

(List Price \$34.30)

**1000 Bulbs**

650 Tulips (same assortment as in Collection No. 1), first size  
 100 Daffodils, King Alfred (retail at \$1 doz.) No. 1 round  
 250 Crocus, mixed colors, 7 to 8 cm. (retail at 60c dozen)

1000 Bulbs; cost \$31.00, sell for \$62.00 (your markup 50%)

**COLLECTION No. 3, \$51.75**

(List Price \$57.45)

**1550 Bulbs**

1100 Tulips, first size  
 150 Bartigon, red  
 150 Pride of Haarlem, cerise  
 100 Farncombe Sanders, scarlet  
 100 Princess Elizabeth, pink  
 100 Clara Butt, salmon-pink  
 100 Golden Harvest, yellow  
 50 Scotch Lassie, bright purple  
 50 Pride of Holland, yellow, bordered red  
 50 Dillenburg, orange  
 50 Queen of the Night, deep purple-black  
 50 White Queen, white  
 100 Mixed colors, all shades (retail for 75c dozen)

250 Crocus—7 to 8 cm., mixed colors (retail at 60c dozen)

100 Hyacinths—15 to 16 cm. (retail at 20c each)  
 25 Red 25 Blue  
 25 Pink 25 White

100 Daffodils—King Alfred—No. 1 round (retail at \$1 dozen)

1550 Bulbs; cost \$51.75, sell for \$108.00 (your markup 52%)

We offer a complete assortment of fall bulbs. Write for price list.

## WILLIS NURSERY CO.

"Your Wholesale Nurserymen"

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These 4 popular collections will help you do it. You save up to 10% on cost. Your markup is 40% to 50% or more.

All of these bulbs are packed in sacks with pictures of the bloom in color. All you need to do to make a display is open the sacks and place them on the counter. Reserve your bulbs now for shipment in September.

**FREE SALES HELPS**

Colorful Display Posters Lithographed in Holland in Full Color  
 Newspaper Mats  
 Illustrated Planting Instructions

All of the above are furnished without charge but must be requested at the time of ordering.

**COLLECTION No. 4, \$99.00**

(List Price \$110.05)

**2750 Bulbs**

1500 Tulips, first size  
 200 Bartigon, red  
 100 Pride of Haarlem, cerise  
 100 Farncombe Sanders, scarlet  
 100 Princess Elizabeth, pink  
 100 Clara Butt, salmon-pink  
 200 Golden Harvest, yellow  
 100 Scotch Lassie, bright purple  
 100 Pride of Holland, yellow, bordered red  
 100 Dillenburg, orange  
 2750 Bulbs; cost \$99.00, sell for \$208.75 (Your markup 52%)

100 Queen of the Night, deep purple-black  
 100 White Queen, white  
 200 Mixed Colors (retail for 75c doz.)  
 500 Crocus, mixed colors (retails for 60c dozen)  
 250 Hyacinths  
 75 Red  
 50 Pink  
 75 Blue  
 50 White (retail at 20c each)  
 250 King Alfred Daffodils (retail at \$1.00 dozen)  
 250 Muscari (Grape Hyacinths) 8 to 9 cm size, (retail at 10 for 79c)

## PACKAGED PEONIES

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Ideal for cash-and-carry, self-serve and counter sales. Fall and Spring.

Large, strong plants put up individually in attractive packages of bright yellow enameled paper, lined with waterproof paper and capped with moisture-resistant cellophane. Each package is labeled with a big four-color picture of the bloom (4x5 inches) that makes selling easy. Complete planting instructions on each package. Popular named varieties. Approximate shipping weight 1 lb. each.

Price: 50c each

Edulis Superba, old-rose-pink  
 Felix Crousse, brilliant crimson  
 Festiva Maxima, large early white  
 Karl Rosefield, bright crimson  
 Mons. Jules Elie, light rose-pink

PLEASE ORDER in multiples of 10 of a variety. Minimum shipment 50 packages.



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**Long Life—Strength—Coloring**

Collected. Nursery-Grown.

Any quantity available.

1/2 to 12-in. cal.

Beech, Ash, Red Maple, Red Oak, Birch and Shadblow also available.

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## FIFTY THOUSAND OWN-ROOT RHODODENDRONS

A wide range of hardy varieties in one, two and three-year plants. Come and see for yourself, to compare quality and prices, or just come and talk rhododendrons, if you prefer.

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## QUALITY NURSERY STOCK

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### DUTCH BULBS

Finest Quality

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to Norfolk Municipal Gardens, Norfolk, Va.; return by Shore drive and Cape Henry. Tour conducted by Frederic Heutte, superintendent, parks and forestry, Norfolk, Va.

Afternoon entertainment will include swimming, fishing, golf, tennis and other activities.

6 p. m.—Social hour, pool loggia.

7 p. m.—Banquet, Virginia, Colonial room; dancing, Cavalier Beach Club.

### AUGUST 18

9 a. m.—Call to order, by President Stanley E. Quillen, Waynesboro Landscape Service, Waynesboro.

9:15 a. m.—"The Nematode Problem in Virginia," by C. R. Willey, state entomologist, Richmond.

9:45 a. m.—"Plant Virginia Program," by Frederic Heutte.

10:15 a. m.—Talk by Dr. W. S. Flory, curator, Orland E. White Research Arboretum, Boyce, Va.

11 a. m.—Business session. American Association of Nurserymen convention report by convention delegates, Arthur J. Lancaster, Jr., Coleman Nursery, Inc., Portsmouth, and Walter D. Arnold, Haynesfield Nurseries, Bristol.

### SHADE TREE PROGRAM

The comprehensive program prepared for the 35th annual convention of the National Shade Tree Conference, scheduled for the Statler-Hilton hotel, Detroit, Mich., August 16 to 21, is published here. Besides the educational topics and excellent speaker's group, the convention planners call attention to the opportunities existing at Detroit to note an extensive metropolitan tree-planting program and new operational procedures that may have practical value for adaptation. As usual, also, there will be commercial exhibits and educational displays.

Special events have been planned for both the ladies and the children accompanying conference members to the convention. Tours of many interesting and nationally known sights have been arranged for, to supplement social events scheduled for all in the official program.

### AUGUST 16

1 p. m.—Registration, mezzanine.

2 p. m.—Executive committee meeting, parlor C.

6:30 p. m.—Executive committee dinner, parlor B.

8 p. m.—N. A. A. executive committee meeting, parlor C.

8 p. m.—Reception and hospitality party, Terrace room.

### AUGUST 17

10:30 a. m.—Call to order, by F. Earle Martin, Cedarvale Tree Experts, Ltd., Toronto, Ont., Canada, president.

11 a. m.—"Why Shade Trees Die along City Streets," by Dr. P. P. Pirone, New York Botanical Garden, Bronx Park, New York city.

2 p. m.—"Conservation and Use of Wood Chips," by H. L. Jacobs, Davey Tree Expert Co., Kent, O.

3 p. m.—"The Importance of Soil Aeration to Plant Growth," by Dr. Earl A. Erickson, department of soil science, Mich-



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and

## EVERGREENS

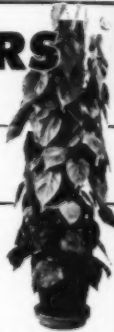


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516 Stevens Ave. Ridgewood, N. J.  
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## QUALITY STOCK GROWN BY US

Roses, Azaleas, Evergreens, California Privet, Green Barberry, Red Barberry (fine strain).

Seedlings and transplants.

**DANEGGER'S HI-WAY NURSERY, INC.**  
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Pine — Spruce — Fir  
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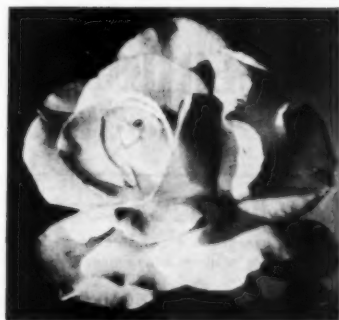
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Neeshanic Station, N. J.



Feature

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*Garden Party* Never before have you had such a first-year selling story on any rose. Here is the *only* Hybrid Tea to win an All-America Award for 1960. And it is a superbly successful cross of the two greatest roses of the century, Charlotte Armstrong and Peace. Beautiful buds, shapely as Charlotte Armstrong's. Huge, Peace-like, pastel-tinted blooms. A vigorous, easy-to-grow plant. If ever a rose was sure to sell, this is it. Be sure you have plenty!

Plant Pat. No. 1814.

Carefully grown  
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graded...

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	Per 100	Per 1000	5000 or more
Strong, well-rooted, 1-yr. plants; propagated in soil and peat frames with light shade...	Per 100	Per 1000	5000 or more
	Prepaid F.O.B. here		in same shipment
	\$6.00	\$50.00	\$47.50

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**SHADE TREES**

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Ornamentals & Roses

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igan State University, East Lansing.  
4 p. m.—"Tools for Diagnosing Tree  
Troubles," by Dr. J. C. Carter, Illinois  
natural history survey, Urbana, Ill.

7:30 p. m.—Buses leave Statler-Hilton  
Bagley street entrance for boat cruise.  
Bob-Lo boat leaves at 8 p. m.

AUGUST 18

7:30 a. m.—Past presidents' breakfast,  
parlor B.

9:30 a. m.—"Biological Control of  
Forest Insects," by Dr. Reginald Balch,  
officer in charge, forest biology labora-  
tory, Frederickton, New Brunswick, Cana-  
da (tentative).

10:30 a. m.—Business session, with  
President F. Earle Martin presiding,  
Michigan room:

Nomination and election of execu-  
tive committee members from regions  
1 and 3 for terms of three years; re-  
gions 5 and 7 for terms of one year.

Nomination and election of mem-  
bership committee, members from re-  
gions 3 and 6.

Report of the executive committee,  
by L. C. Chadwick, secretary, Ohio  
State University, Columbus, O.

Report of the budget committee, by  
Paul Tilford, chairman, executive sec-  
retary, National Arborist Association,  
Wooster, O.

Report of the secretary, by L. C.  
Chadwick.

Report of the treasurer, by L. C.  
Chadwick.

Report of the editor, by Paul E. Til-  
ford.

12 noon—Keynote luncheon, ballroom.

2 p. m.—Section 1: National Arbor-  
ist Association meeting, Michigan room.

"Office Management Practices for  
Tree Companies," by Charles H. Lamb,  
Muncie Tree Surgery Corp., Muncie,  
Ind.

"How Harmful Is Tree Spraying to  
Birds?," by J. A. Dietrich, park super-  
intendent, Greenwich, Conn.

Business meeting.

2 p. m.—Section 2: "Municipal Arbori-  
culture," for Municipal arborists, city for-  
esters, shade tree commissioners, park  
superintendents and others interested in  
public area tree problems; ballroom.

Introductory remarks, by Theodore  
J. Haskell, chairman, municipal arbor-  
ists' committee.

Films—Courtesy of Detroit parks  
and recreation department: "Why  
Hard Hats?" and "Safe Operation of  
Brush Chippers."

"Employee Development," by Dr.  
David Moore, department of personnel  
and production administration, Michi-  
gan State University.

"Tree Planting and Maintenance,"  
by Gordon A. McNair, city arborist,  
Hamilton, Ont., Canada.

Discussion period:

A—"Disposal of Brush and Wood."

B—"Uniforms and Special Equip-  
ment for Tree Workers."

C—"Personnel Problems."

6:30 p. m.—National Arborist Associ-  
ation dinner, Michigan room.

Address, "Exotic Trees Overseas,"  
by Prof. F. L. Steve O'Rourke, depart-  
ment of horticulture, Michigan State  
University.

6:30 p. m.—Dinner for all interested  
in municipal arboriculture, ballroom.

AUGUST 19

8 a. m.—Early bird breakfast, in honor  
of Canadian members, ballroom.

"Canada," by John W. Fisher, Cana-  
dian Tourist Association (tentative).

9:30 a. m.—"Current Analysis of the  
Use of Chemicals To Prevent Fruiting of

# 500,000 JAPANESE BLACK PINE

## (PINUS THUNBERGI)

We get our seed direct from northern Japan, where centuries of growing on wind-swept shores have given these trees their tendency to be short, full, compact and a beautiful dark green.

	Per 1000
1-yr., S., 3 to 5 ins. ....	\$ 30.00
2-yr., S., 5 to 6 ins. ....	50.00
2-yr., S., 6 to 10 ins. ....	75.00
3-yr., S., 10 to 15 ins. ....	100.00
3-yr., S., 15 to 24 ins. ....	150.00
3-yr., T., 12 to 18 ins. ....	250.00
4-yr., T., 18 to 24 ins., full .....	500.00
5-yr., T., 24 to 30 ins., full .....	1000.00
	Each
2 to 3 ft., B&B .....	\$ 4.00
3 to 4 ft., B&B, wide .....	7.50
4 to 5 ft., B&B, wide .....	10.00
5 to 6 ft., B&B, wide .....	12.50
6 to 8 ft., heavy .....	20.00
<b>Pinus mughus, limited supply</b>	
18 to 24 ins. ....	3.00
<b>Pinus strobus, nursery-grown</b>	
3 to 4 ft., B&B, sheared .....	4.00
4 to 5 ft., B&B, sheared .....	5.00
5 to 6 ft., B&B, sheared .....	7.50
6 to 7 ft., B&B, sheared .....	10.00
7 to 8 ft., full, B&B, sheared .....	15.00
8 to 10 ft., full, B&B, sheared .....	20.00
<b>Pinus sylvestris</b>	
3 to 4 ft., full, B&B, sheared .....	6.50
4 to 5 ft., full, B&B, sheared .....	10.00
5 to 6 ft., full, B&B, sheared .....	12.50
6 to 8 ft., full, B&B, sheared .....	20.00
<b>Pinus nigra</b>	
2 to 3 ft., sheared .....	4.00
3 to 4 ft., sheared .....	6.50
4 to 5 ft., sheared .....	10.00

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at our own nursery. Widest practical  
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Cercis canadensis, Cornus florida, Phellodendron  
amurense, Platanus acerifolia, Liquidambar styr-  
aciflua, Acer platanoides, Acer rubrum, Frax-  
inus americana, Acer ginnala, Ostrya virginiana,  
Koeleruteria paniculata, Pyrus calleryana, Pinus  
strobus, Pinus nigra, Salix babylonica, Pteris  
japonica and many more.

**HIDDEN VALLEY NURSERY**

Phone: Millington 7-1158 Gillette, N. J.

Trees," by Dr. K. W. Reisch, department  
of horticulture, Ohio State University.

10 a. m.—Tree-planting ceremony by  
Canadian chapter.

11 a. m.—Buses leave Statler-Hilton  
Bagley street entrance for Belle Isle park  
and commercial equipment demonstra-  
tions.

11:45 a. m.—Box lunch, Belle Isle park.

1 p. m.—Commercial equipment dem-  
onstrations, Belle Isle park.

4:30 p. m.—Buses return to Statler-  
Hilton hotel.

Open evening: Musical, Belle Isle  
park; "Cinerama—South Seas Adven-  
ture," Music Hall theater; baseball game,  
New York Yankees vs. Detroit Tigers.

## AUGUST 20

9:30 a. m.—"Public Utility Arbori-  
culture"—program arranged by the pub-  
lic utility arborists' committee; C. E.  
Lee, Southern California Edison Co., Ltd.,  
Los Angeles, Calif., chairman.

## PANEL DISCUSSION NO. 1

Moderator, Prof. Gordon King, arbori-  
culture department, University of Mas-  
sachusetts, Amherst.

Panel members:

Frank E. Kowalk, vice-president,  
Farrens Tree Surgeons, Inc., Jack-  
sonville, Fla.—"Field Procedures and  
Public Relations."

Orville Spicer, Bartlett Tree Expert  
Co., Stamford, Conn., "Training and  
Safety."

Hyland R. Johns, Jr., Asplundh  
Tree Expert Co., Jenkinstown, Pa.,  
"Growth and Retardants."

John D. Waldrum, Amchen Prod-  
ucts, Inc., Ambler, Pa., "Right of  
Way Maintenance."

## PANEL DISCUSSION NO. 2

Moderator: Prof. Gordon King.

Panel members:

Robert J. Kelly, Detroit Edison Co.,  
Detroit, Mich., "Cooperative Effort in  
Solving Tree and Line Clearance Prob-  
lems."

Edward H. Scanlon, Edward H.  
Scanlon & Associates, Consulting Ar-  
borists, Olmsted Falls, O., "Tree Se-  
lection for Areas under or Adjacent to  
Overhead Lines."

1:30 p. m.—Business session, President

F. Earle Martin presiding:

Standing committee reports:

Nomenclature and standards, by Dr.  
Richard F. Campana, department  
of plant pathology, University of  
Maine, Orono, Me.

Memorial research fund, by Dr. Paul  
E. Tilford.

Slide library, by Dr. S. H. Davis, Jr.,  
department of plant pathology,  
Rutgers University, New Brun-  
swick, N. J.

Public utility arborists, by C. E. Lee.  
Shade tree selection, by Edward H.  
Scanlon.

Shade tree evaluation, by Norman  
Armstrong, Chapel Hill, N. C.

Municipal arborists, by Theodore J.  
Haskell, assistant city forester, Lan-  
sing, Mich.

Arboriculture film: Production, by  
Noel B. Wysong, Cook county for-  
est preserve, River Forest, Ill.;  
funds, by F. Earle Martin.

Ethics and standards of practice, by  
Keith L. Davey, Davey Tree Sur-  
gery Co., Ltd., San Francisco,  
Calif.

Membership classification, by Wilfred  
Wheeler, Jr., Bartlett Tree Expert  
Co., Cambridge, Mass.

Realignment of regional boundaries,  
by J. C. Kenecaly, Lower Merion

## BOOKS ON SHRUBS

**Evergreen and Flowering Shrubs  
for Your Home**, by Katharine M-P.  
Cloud. Discusses soil, planting, fer-  
tilizing, pruning, mulching, spray-  
ing and general upkeep. An entire  
section given to evergreens, an-  
other to flowering shrubs for color.  
256 p., 90 illus. (1957) . . . . . \$4.95

**The Book of Shrubs**, by A. C. Hottes.  
Tells how and when to plant, prune  
and spray and gives various lists  
of shrubs for many uses. Covers  
propagation, transplanting, prun-  
ing, soil requirements, etc. 448 p.  
6th edition. (1952) . . . . . \$4.00

**Shrubs and Vines for American  
Gardens**, by Dr. Donald Wyman.  
Planting guide. Recommends about  
1,100 species and varieties. Sec-  
ondary list of 1,700. Gives 800  
blooming dates in sequence. Col-  
ored maps show hardiness zones of  
U. S. and Canada. 100 half-tones.  
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Evergreen Seedlings

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In Variety

2-yr., T.

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5-yr., T.T.

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**Pioneering Seedling Growers on  
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***Specializing in Fruit Tree Seedlings,  
Shade and Flowering Trees***

French, McIntosh and  
Domestic Apple Seedlings,  
Str. and Br.

Bartlett Pear Seedlings,  
Str. and Br.

French Pear Seedlings,  
Str. and Br.

Calleryana Pear Seedlings,  
Str. and Br.

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(*Prunus tomentosa*)

Mahaleb Cherry Seedlings

Mazzard Cherry Seedlings

Myrobalan Plum Seedlings

American Plum Seedlings

Angers Rooted Quince  
Cuttings

Combination carloads to eastern distributing points.

**John Holmason & Sons**

**Props.**

## GUARANTEED-TO-LIVE TRANSPLANTED EVERGREENS



	Per 1000
American Arborvitae, 4-yr. transplants (2-2), 5 to 10 ins.	\$ 70.00
Douglas Fir, 3-yr. transplants (2-1), 3 to 6 ins.	70.00
Austrian Pine, 4-yr. transplants (2-2), 8 to 15 ins.	70.00
Scotch Pine (Austrian Hill), 4-yr. transplants (2-2), 6 to 12 ins.	65.00
Scotch Pine (French Highlands), 4-yr. transplants (2-2), 6 to 12 ins.	65.00
Black Hill Spruce, 6-yr. transplants (2-4), 8 to 15 ins.	85.00
Black Hill Spruce, 5-yr. transplants (3-2), 5 to 10 ins.	75.00
Colorado Blue Spruce, 5-yr. transplants (2-3), 6 to 10 ins.	150.00
Engelmann Blue Spruce, 5-yr. transplants (3-2), 6 to 12 ins.	80.00
Norway Spruce, 5-yr. transplants (2-3), 6 to 12 ins.	80.00
Norway Spruce, 4-yr. transplants (2-2), 4 to 10 ins.	70.00
White Spruce, 6-yr. transplants (2-4), 10 to 18 ins.	85.00
White Spruce, 4-yr. transplants (2-2), 8 to 10 ins.	70.00
Upright Yew (Taxus capitata), 5-yr. transplants (2-3), 6 to 10 ins.	250.00

### SEEDLINGS (not guaranteed)

European Larch, 2-yr. seedlings (2-0), 4 to 10 ins.	30.00
Japanese Black Pine, 2-yr. seedlings (2-0), 3 to 6 ins.	25.00
Scotch Pine (Austrian Hill), 2-yr. seedlings (2-0), 4 to 8 ins.	25.00
Scotch Pine (Spanish), 2-yr. seedlings (2-0), 4 to 8 ins.	25.00
Scotch Pine (North German), 2-yr. seedlings (2-0), 3 to 5 ins.	20.00
White Pine, 2-yr. seedlings (2-0), 3 to 5 ins.	20.00
Colorado Blue Spruce, 4-yr. seedlings (4-0), 6 to 12 ins.	50.00

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Cash with order; or one-half cash with order, balance C.O.D. All prices F.O.B. Fryeburg, Maine, net; no discounts. 250 trees of any one kind and size at the 1960 rate. For less than 250 of one kind, ask for retail price list. No extra charge for boxes or packing.

If they are grown in Maine they will grow anywhere. Several other varieties of transplants available. Send for complete list of stock.

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## NURSERY STOCK

Per 100 Per 1000

Red-leaved Barberry	
2-yr., S., 9 to 12 ins.	\$ 6.50 50.00
2-yr., S., 12 to 18 ins.	10.00 75.00
Row run, 9 to 18 ins.	7.50 60.00
Cornus florida (White Dogwood)	
1-yr., S., budding size.	6.00 50.00
1-yr., S., below budding size	4.50 35.00

Ask for list.

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## PIERIS JAPONICA

The most beautiful broad-leaved evergreen of all. In summer the color of the foliage is always changing, first red, then pale green and then dark green. In August the flower buds form in graceful racemes for next spring's flowers. White, Lily of the Valley flowers appear with the first warm weather, and flowers often last 6 weeks. Grows well in sun or shade. Makes a nice contrast with Azaleas and Rhododendrons.

4 to 6 ins., T.	15c
6 to 8 ins., T.	20c

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## DECIDUOUS AND EVERGREEN TREES AND SHRUBS

Outstanding assortment.  
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**LOVETT'S NURSERY, INC.**  
LITTLE SILVER, N. J.

## AZALEAS AND HEDGE PLANTS

Splendid stock.  
Write for Price List.  
**DIAMOND STATE NURSERIES**  
MILFORD, DEL.

township shade tree commission, Ardmore, Pa.

Convention committee report: Nominating; resolutions.

Recommendations for 1963 convention city by board of governors to executive committee.

3:45 p. m.—"Use and Effect of Gibberellins on Plant Growth," by Ralph Althaus, Merck & Co., North Olmsted, O.

4:20 p. m.—"Antibiotics for Control of Tree Diseases," by Dr. William Klomparens, Upjohn Co., Kalamazoo, Mich.

6:30 p. m.—Cocktail hour, Michigan room.

7:30 p. m.—Annual banquet, ballroom; entertainment and dancing.

### AUGUST 21

7:30 a. m.—Executive committee breakfast, parlor F.

9:30 a. m.—Trip to world-famous Henry Ford museum and Greenfield Village, Dearborn, Mich.

## CANCEL ONE A. A. N. COURSE

The nursery management course planned by the American Association of Nurserymen for August 9 to 15 at the Georgia center for continuing education, Athens, Ga., has been canceled, according to the July 6 news letter of the A. A. N. The course's cancellation was caused by a lack of interest on the part of nursery managers.

It was further stated that only half the number of applications needed to make the management course at the Sagamore conference center, near Raquette Lake, N. Y., August 30 to September 5, financially possible had been received. Members planning to attend the second course were requested to send their applications to the A. A. N. headquarters at Washington, D. C., without delay.

## PENNSYLVANIANS' PLAN

Hershey Estates, Hershey, Pa., will be host to the 1959 summer meeting of the Pennsylvania Nurserymen's Association Wednesday, August 12. John P. Meszaros, director of horticulture at the estates, is in charge of arrangements. Lodging will be available at Cocoa Inn.

Registration will start at 9 p. m. in the lobby of the Community Club building. A 2-hour conducted tour will start at 10 a. m., including the museum, Milton Hershey school, hotel, rose garden and nursery. Other places to visit will be the chocolate factory, zoo and amusement park. A swimming pool and public golf course are available for use. Special-priced tickets for children for amusements can be purchased at the time of registration.

A box lunch will be served in the Community Club dining room at 12 noon, to be followed by a short business meeting in the Little Theater,



Those interested may obtain full information on activities of the society, membership dues, etc., by writing: Charles A. Young, Jr., Secy., Bergner Mansion, Baltimore, Md.



in the same building. Dinner at 6 p. m. in the same dining room will be smorgasbord-type consisting of hot and cold dishes.

The conducted tour of the morning will be repeated at 2 p. m.

### MASSACHUSETTS DAY

The summer meeting of the Massachusetts Nurserymen's Association will be held at Corliss Bros., Inc., nurseries, Ipswich, Mass., August 12.

The all-day affair will feature tours of the nursery, including the container growing area, display grounds and the garden center. The program also includes a dinner, a short informal meeting and fun and relaxation. Members' families can spend the day at famous Cranes beach.

### NEW ENGLAND OUTING

The New England Nurserymen's Association's summer meeting, scheduled for August 19, is planned for the enjoyment of the nurserymen and their wives, children and friends as well. Harkness memorial state park, Waterford, Conn., is the site for the meeting, and the following Connecticut nurseries will be hosts to the group: Van Heiningen Nursery, Deep River; Clinton Nurseries, Clinton, and Verkade's Nurseries, Brouwer's Nurseries, Peter Brouwer Nurseries and Jack Brouwer's Nursery, all of New London.

The refreshment tent at the affair will open at 10 a. m., and dinner will be served at 12:30 p. m. A bus tour of the nurseries is not planned this year. Guests from out of state are invited and will find Mystic museum and other sites in the historic area around the park worth visiting.

### WISCONSIN SUMMER PLANS

Registration for the summer meeting of the Wisconsin Nurserymen's Association will take place at 9 o'clock Thursday morning, September 3, at the Nepco Lake Nursery, Port Edwards, Wis., host for the first day of the event. The nursery is a division of the Nekoosa-Edwards Paper Co., and the paper mill of the parent firm as well as the nursery itself will be toured during the morning, with special planting equipment being demonstrated after the nursery tour.

Association members will enjoy lunch at the Nekoosa-Port Edwards Boys and Girls Club, after which talks and demonstrations will be given on nursery sawdust composting, nursery weed control and chem-

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In variety including:  
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Heavy sheared, transplanted or root-pruned frequently.

### CRIMSON KING MAPLES

Well-spaced, good heads, up to 2 to 2 1/2-in. cal.

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Up to 7 to 8 ft.

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\$4.50 per 100; \$40.00 per 1000.  
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Hemlocks, Ferns, Wild Flowers  
Trees, Shrubs

**ISAAC LANGLEY WILLIAMS**  
EXETER, N. H.

ical application. During the rest of the afternoon the nurserymen may take advantage of the swimming, fishing, golf and other recreational facilities of the area before meeting for dinner at the South Wood County Y. M. C. A., Port Edwards.

Jens Nursery & Garden Center, Wisconsin Rapids, will host the second and final day of the meeting, Friday, September 4. After a tour of the nursery grounds, a panel discussion is scheduled on the merchandising and display of nursery and allied products. The meeting will adjourn after lunch at the Jens nursery.

### NEBRASKA SUMMER DATE

August 24 is the date scheduled for the summer meeting of the Nebraska Association of Nurserymen, according to Jim Elliott, secretary-treasurer. The group will meet at Marshall Nurseries, Arlington, Neb., in the morning and continue their meeting at Plumfield Nurseries, Inc., Fremont, Neb., in the afternoon. The nurserymen will be guests of both nurseries for lunch at Fremont.

### WAGE-HOUR RULING UPSET

The United States Court of Appeals has reversed a district court decision that would have exempted workers of the Canal street warehouse of the Huntsville Wholesale Nurseries, Inc., Huntsville, Ala., from the provisions of the federal wage and hour law.

The workers in question are engaged primarily in processing and storing nursery stock obtained from sources other than Huntsville's own Alabama growing grounds—roses produced under contract with Texas growers, pecan trees likewise produced in Louisiana, berry bushes and miscellaneous stock items purchased from other nurserymen to cover occasional stock shortages.

In the earlier decision, the Alabama court had ruled that the Texas-grown roses, which account for two thirds of the stock handled at the warehouse, were in effect products of Huntsville's agricultural operations, because of the character of the agreements with the Texas growers. It had ruled that the volume of the other stock handled at the warehouse was not so substantial as to change the agricultural character of the nursery's enterprise and that the warehouse workers were within the agricultural exemption provided by the wage and hour regulations.

The court of appeals, which received the case after Secretary of

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**SPREADING, to 24 ins.**

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### LANDSCAPING FOR MODERN LIVING (Sunset Magazine)

Landscaping for new and old gardens. Every major climate is represented. Hundreds of practical ideas in 248 photographs, 210 drawings and 91 plans. 190 P. (1959).....\$2.00

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Labor James P. Mitchell had filed an appeal from the Alabama decision, held that the rosebushes are not the production of Huntsville Wholesale Nurseries but must be considered the production of the Texas farmers. It ruled, therefore, that the warehouse workers are handling stock purchased from outside sources and that these activities do not fall within the law's definition of agriculture, which includes practices performed by a farmer or on a farm and practices incidental to such farming.

Processing by a firm of commodities produced by other farmers is incidental to the farming operation of the other farmers and is not within the wage and hour exemption, according to the court's unanimous decision.

### SOUTHERN RESEARCH

The Southern Nurserymen's Association recently published its third annual report on ornamental research in each southern state, giving a resume of the work done in those states. Copies of the 40-page booklet may be obtained from D. P. Henegar, executive secretary, Southern Nurserymen's Association, Box 57, McMinnville, Tenn.

### MISSISSIPPI MEETING

[Concluded from page 13]

when year-around production of chrysanthemums was just beginning.

He outlined results of recent research work with red light and such chemicals as AMO-1618. To demonstrate the effectiveness of AMO-1618 on growth of chrysanthemums, he presented results of research done at Mississippi State College which was patterned after that done by Dr. Henry Cathey, of the United States Department of Agriculture. The results indicated the value of the chemical. In this case, 25 to 50 parts per million soaked and 250 to 500 ppm sprayed were recommended. There proved to be no differences in the number of nodes, indicating that the reduction in growth is due to a lack of cell elongation. Also, no differences in bloom sizes were apparent.

Guy Robbins, of the college, next presented fundamentals of propagation. He feels that maturity of seeds determines to a great extent the germination percentage.

ADDRESS of Erwin W. Whitham, E. W. Whitham Sales Agency, secretary of the New England Nurserymen's Association, has been changed to 31 Crosby road, Manchester, Conn.



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# THIS BUSINESS OF OURS

*Reflections on the Problems of Nurserymen*

*By E. Sam Hemming*

## TRAINING TREES

Most plants that are trained to grow in a manner other than what is natural are small evergreens and shrubs. It is not often that one thinks of training large-growing trees. Large-growing trees do not often have the qualities needed to make them amenable to training and shaping; furthermore, it is not usual that the average gardener or homeowner can find the time or equipment to train them.

When large trees are trained one usually finds the work done in parks or on large institution grounds where special effects are desired. In the main formal garden at Longwood Gardens, Kennett Square, Pa., large Norway maples are pruned into cubes. In a garden of such large proportions it is necessary to scale the various features; otherwise any plants of smaller dimensions would not be attractive nor create the picture desired. It is not at all difficult though, to imagine the considerable work involved in shaping and training these trees.

Many trees do not lend themselves to exotic training, but of those that do, the beech, both the English and the American, is best. The beech is a naturally low-branched tree with rather slender branches which, when young, can be bent easily.

The English gardeners for centuries have grown what they call pleached hedges, similar to giant hedges. I have seen photographs of them 50 to 60 feet high. To create these hedges the trees are planted relatively close and the branches are allowed to intertwine; the outward growing branches are kept pruned.

### Training Beeches in U. S.

In this country the beech has been planted and trained to grow over a pipe frame arch above a pathway. The beech also can be trained to grow over framing of other shape. It was long a wish of my father to plant an outdoor cathedral of beech trees. It could be done, but it would require a tremendous amount of labor.

There is one other tree whose branches do not tend to die out when trained in this manner, and that is the native American hornbeam. It can be used to make pleached

hedges, although its ultimate proportions are not so large as those of the beech.

For espalier effects one usually thinks of fruit trees or small ornamentals. In a few situations, large plants or trees are called for. For the climate in Maryland a good possibility is *Magnolia grandiflora*. It easily can be expected to grow 50 feet high, but it has one disadvantage in that after 15 or 20 years the trunk may become too large and heavy and might even damage the building at the base.

For fairly large evergreen hedges there are two excellent possibilities where the climate is suitable. The American holly readily retains its lower branches and in a reasonable time reaches 20 to 25 feet. At the other extreme, I know of an American holly hedge that is 25 years old and has been successfully kept five feet high. The other possibility is the common American arborvitae,

which can be trained into a 25-foot hedge nicely. This plant is often wrongly used, but this a right use.

### Cedar and Hemlock Used

At Williamsburg, Va., certain large topiary forms have been created with the native red cedar. Another possibility is the Canadian hemlock. In England, where the sense of time has been less urgent, the yew has been used in such situations. The yew could also be used here in America if desired.

In one sense of the word, trees are trained when they are grown in the nursery for streetside planting. In nature, trees tend to branch to the ground if they are growing isolated in the open and tend to lose their lower branches when grown among other trees. This quality varies considerably.

I think a mistake is made in the usual production of street trees in the nursery. The side branches are raised too quickly, so that there is often not enough foliage to sustain properly the tree's natural food-producing cycle. This will tend to stunt or harden the tree. Also, the naked trunk may become subject to sun scald and other trunk damage. The best way to remove this danger is to permit a certain amount of feathering along the trunk. This permits a

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## the cottage gardens



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TREE PEONIES		1 to 9	10	100
5-in. pots		rate	rate	rate
ARGOSY, single, yellow...	\$2.50	\$2.25	\$2.00	
LA LORRAINE, double, yel.	3.25	3.00	2.75	
REINE ELIZABETH, salmon-rose, double...	2.50	2.25	2.00	
SATIN ROUGE, double, vermilion-orange	3.50	3.25	3.00	
YASO-O-KINE, immense, semidouble, pure white...	4.50	4.25	4.00	

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Liners in 2-in. pots ..... \$2.00 \$10.00 \$150.00  
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LINING-OUT STOCK

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proper proportion of foliage and also shades the trunk.

Trees can be trained, but it is necessary to keep in mind and take advantage of their natural habits.

### MISSOURI SHORT COURSE

[Continued from page 10]

Tree ferns of several genera and many species are also common landscape plants, often being massed over entire hillsides. After Dr. Chamberlain's talk the meeting adjourned until 7 p. m., when everyone joined the food line at the Wilkerson Nursery for a barbecue.

### Gaining Customers

Wednesday morning, June 24, the meeting opened with S. R. McLane, vice-president of the Missouri State Nurserymen's Association, presiding. After some preliminary comments, he introduced the first speaker, Dr. R. A. Lansford, of the university's business and public administration department. Dr. Lansford opened his talk by asking "How large is your bank account of customers?"

To increase the customer account he specified several points that nurserymen should consider when making sales. Asking questions and pointing out the benefits to be derived from a product are always helpful in making a sale and gaining a satisfied customer. Talking in terms the customer can understand and offering after-the-sale services are also effective aids.

Several other techniques were mentioned by Dr. Lansford, including familiarizing oneself with a customer's hobbies and following up a sale with a telephone call or even a personal visit to create a friendly atmosphere. If one has initiative, imagination and a genuine liking for people, the speaker concluded, then his bank account of customers will continue to grow. The meeting then recessed for a coffee break.

### What the Customer Wants

The final speaker on the program, Dr. William Stephenson, professor of advertising, presented his talk, "What the Customer Really Wants." He prefaced his remarks by stating that many nurserymen consider the customer as a necessary evil—a person always interrupting their work and demanding immediate help and advice. The nurseryman must counteract these feelings if they exist. His attitude should always be courteous and helpful.

Insofar as the customer is concerned, Dr. Stephenson classified the public into three groups. Some consumers are collectors, avid readers

## SEEDLINGS AND LINERS

### FALL—SPRING, 1959-60

	Per 100	Per 1000	Per 10000 or more
<b>TAXUS CUSPIDATA CAPITATA, seed grown</b>			
8 to 12 ins., XX	\$85.00		
6 to 10 ins., X	42.50	\$275.00	\$250.00
4 to 6 ins., X	26.00	210.00	190.00
<b>COLORADO BLUE SPRUCE</b>			
(3-2), 8 to 12 ins.	28.00	210.00	
(2-2), 6 to 10 ins.	18.00	150.00	135.00
(3-1), 6 to 10 ins.	14.00	75.00	
(3-0), 6 to 12 ins.	10.00	45.00	42.50
(2-0), 2 to 5 ins.	7.50	28.00	24.00
<b>WHITE SPRUCE</b>			
(3-1), 6 to 10 ins.	12.00	70.00	
(3-0), 4 to 8 ins.	8.00	45.00	42.50
(2-0), 2 to 5 ins.	7.50	26.00	22.00
<b>NORWAY SPRUCE</b>			
(3-0), 6 to 12 ins.	8.00	40.00	37.50
<b>BLACK HILLS SPRUCE</b>			
(3-0), 4 to 8 ins.	8.00	40.00	37.50
<b>DOUGLAS FIR</b>			
(2-2), 12 to 15 ins.	28.00	220.00	
(2-2), 6 to 12 ins.	22.00	180.00	
(2-0), 3 to 8 ins.	7.50	28.00	26.00
<b>WHITE PINE</b>			
(2-2), 5 to 10 ins.	16.00	130.00	
<b>PONDEROSA PINE</b>			
(2-2), 6 to 12 ins.	10.00	80.00	
<b>MUGHO PINE, Tyrolean dwarf</b>			
(2-2), 3 to 4 ins.	22.00	100.00	150.00
<b>AUSTRIAN PINE</b>			
(2-2), 8 to 14 ins.	12.00	85.00	
(2-1), 3 to 8 ins.	10.00	37.50	32.50
(3-0), 5 to 10 ins.	10.00	28.00	24.00
(2-0), 2 to 4 ins.	6.00	18.00	16.00
<b>SCOTCH PINE (Poland)</b>			
(2-2), 12 to 16 ins.	14.00	70.00	
(3-0), 12 to 16 ins.	9.00	34.00	30.00
(3-0), 8 to 12 ins.	7.50	26.00	22.00
(2-1), 3 to 8 ins.	9.00	36.00	32.00
<b>SCOTCH PINE, AUVERGNE</b>			
(2-1), 3 to 6 ins.	9.00	36.00	32.00
(2-0), 3 to 6 ins.	7.50	22.00	18.00

**ON TRANSPLANT STOCK ONLY:** An order of 5000 on one item, 10,000 price applies; 5% for cash with order.

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### Specimen Evergreens

	18 to 24 ins.	2 to 3 ft.	3 to 4 ft.	4 to 5 ft.
American Arborvitae	....	\$1.85	\$2.75	\$3.25
Canaert Juniper	....	1.95	2.85	3.40
Juniperus columnaris glauca	....	1.90	2.90	3.50
Globe Arborvitae	\$1.85	....	....	....
Hemlock	1.75	2.00	2.85	3.50
Keteleer Juniper	....	2.25	2.85	3.25
Mugho Pine	2.95	....	....	....
Juniperus pyramidalis	....	1.90	2.35	2.65
Scotch Pine	1.75	2.25	3.25	3.95
Taxus hicksi	2.50	3.25	3.95	....
White Pine	1.75	2.40	2.95	3.75

Other varieties and sizes in finished stock and in containers.

**SPECIAL**—4-yr. select Colorado Blue Spruce in quart cans, 21c each.

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Pfitzer Juniper

**Pfitzer Juniper** Each  
6 to 10 in. .... \$0.07  
Plant Bands ..... .16  
**Von Ehrh Juniper**  
6 to 10 in., bare-root ..... .06  
Less than 300, total order, 2c more  
per plant. Less than 50 of any item,  
4c more per plant. See classified under  
lining-out stock for other items.

**McININCH GREENHOUSES**

St. Joseph, Mo.

### Peach

Hydrangea P. G.

Hydrangea P. G. (Tree Form)

Ornamental Trees

Grapevines, 1-yr. and 2-yr.

Thorne Brewster

**WILLOWBEND NURSERY**

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Alpine Currant  
Hydrangea P. G.  
French Lilacs  
Snowball  
Shade Trees  
Evergreens  
Phlox  
Peonies  
Plum Seedlings  
Lining-out Stock

Let us quote you on your requirements.

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CHARLES CITY, IA.

of all that concerns their plants—they may know more than the nurseryman. At the other extreme, one finds individuals who take no active interest in yards, who desire no lawns and wish to do no work about their home grounds. These are few in number.

In between there are the masses, and these homeowners have different needs. In general this group falls into two categories—the prestige seekers and the bargain hunters. The prestige seeker is interested in being in front of everyone or “keeping up with the Joneses.” The bargain hunter is always looking for a bargain—he can be appealed to in this manner. The recognition by the nurserymen of these two groups initiated a lively discussion, after which the short course terminated.

### Business Meeting

At noon, the nurserymen held their annual luncheon in the Student Union. This was followed by the business meeting, which was opened by M. S. N. A. President Ellery Bennett, Chesmore Seed & Nursery Co., St. Joseph, with a recognition of Professor Talbert and Dr. Haseman, professors emeritus of horticulture and entomology, respectively. Professor Talbert was one of the first state inspectors of Missouri, while Dr. Haseman was the first state entomologist. The secretary's report was then read at President Bennett's request. Stanley McLane requested that next year's printed program include a listing of members. This suggestion was well received and will be followed, if possible, next year.

The secretary mentioned that correspondence frequently comes to his hands about other possible meeting places. These have been discarded since the university offers so many advantages of economy and convenience. It was decided that Columbia was still the most desirable place for future meetings.

The president then called for the report of the nominating committee, and elections were held as reported earlier. It was moved by Orville Moffett, Kelsey Nursery Co., St. Joseph, to amend the constitution to substitute the word “or” for “and” in the phraseology of the section reading, “. . . two thirds of the executive committee and two thirds of members of the association present at any meeting of the association. . . .”

A final comment by Robert Eggers concerned the conflict in schedules between the Missouri and Illinois meetings. It was agreed that efforts will be made to circumvent this trouble in the coming year.

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2-year, root-pruned,  
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2-year, seedlings, 2 to 5 feet

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Elmhurst, Mo.  
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## OBITUARY

### Elbert A. Read

Elbert A. Read, 84, president of the Henry Field Seed & Nursery Co., Shenandoah, Ia., died at Shenandoah June 10 after a lengthy illness. Mr. Read became interested in the Field company as an officer in his father's Shenandoah bank and, by the time the bank closed in the 1920's, he was a member of the board and a heavy stockholder in the nursery.

In 1935, he and John Nicolson, an expert seedsman, bought a controlling interest in the firm, which was then in financial difficulties. Together they set the seed and nursery business back on its feet and continued to manage it for founder Henry Field until his death in 1949, at which time Mr. Read became president and Mr. Nicolson vice-president. Corporate ownership of the firm passed completely into the hands of Mr. Read and his family after Mr. Nicolson's death in 1953.

Forced by ill health to relinquish active management of the business early in 1959, Mr. Read had just announced the sale of the firm to a group of its key personnel a few days before his death. Details of this transfer of ownership are given elsewhere in this issue.

Mr. Read was also owner of considerable business and residential property in and around Shenandoah, including several thousand acres of farmland. A veteran business and civic leader, he was said to have as his hobby the town of Shenandoah. He had served as chairman of the park board and for 25 years was head of the Rose Hill cemetery association, contributing its landscaping and other beautification. He was a member of the Kiwanis and a charter member of the Elks Club, having headed the committee that built the club's Shenandoah lodge.

He is survived by his widow, Mrs. Josabel Read; three daughters; a brother, and a sister.

### Thomas Rogers

Thomas Rogers, retired founder of the Winfield Nurseries, Winfield, Kan., died June 19 at St. Francis hospital, Wichita. He was 91 years old and had been in failing health for some time.

Born at Lexington, Ill., in 1868, he moved to Kansas when he was 17 years old and settled at Winfield in 1901 after his marriage to Mary Edrington. He worked as a nursery-

## POPPIES

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	Per 10	Per 100
Barr's White, best white to date .....	\$4.00	\$35.00
Beauty of Livermore, dark crimson .....	3.00	25.00
Carmen, deep cardinal-red .....	4.50	40.00
Carnival, very unusual, lower half white, upper half red ...	3.50	30.00
Curtis Giant Flame, huge red .....	3.00	25.00
Curtis Giant Flesh-Pink, delicate large blooms .....	3.50	30.00
Curtis Giant Mahogany, immense blooms .....	4.00	35.00
Curtis Giant Salmon-Pink, large and light .....	4.00	35.00
Grossfurst, deep crimson .....	3.00	25.00
Henri Cayeux, improved rose shaded burgundy .....	3.00	25.00
Royal Scarlet, good grower .....	3.00	25.00
Salmon Glow, double salmon-orange .....	3.00	25.00
Salome, rare French rose .....	3.25	27.50
Sweetheart, pure clear pink .....	3.50	30.00
Toreador, huge carmine-red .....	3.25	27.50

2% discount allowed for cash with order. Write for our complete list of popular plant material.

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500 Acer rubrum, 1¾ to 2-in. cal.  
300 Acer dasycarpum, 1¾ to 2-in. cal.  
200 American Sycamore, 1¾ to 2-in. cal.

All have good, full heads

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Evergreens, Fruit Trees, Shade  
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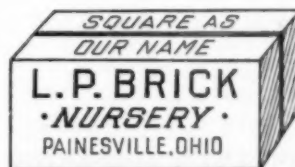
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man for Cooper & Moncrief until establishing his own business, the Winfield Nurseries, in 1914. The firm, which Mr. Rogers turned over to his son-in-law when he retired in 1945, is now operated by his grandson, Irl Fife.

Survivors include four sons, Tom, Ed, Leo and John; two daughters, Mrs. Hazel Hanna and Mrs. Carson Nunn, and several grandchildren.

#### Eric Walther

Eric Walther, 66, internationally known horticulturist and builder of Strybing Arboretum and Botanical Gardens, Golden Gate park, San Francisco, Calif., died July 2 after a heart attack suffered on June 30.

Born at Dresden, Germany, Mr. Walther came to America as a youth, first working as a day laborer. For 40 years he worked to beautify the barren sand dunes of Golden Gate park. The late John McLaren, then park superintendent, encouraged Mr. Walther to study horticulture and appointed him first supervisor of the arboretum when it was created in 1939 by Helene Strybing as a memorial to her husband. Mr. Walther was later honored with the Thomas Roland medal for horticultural skill by the Massachusetts Horticultural Society.

#### Mrs. J. W. Sowers, Sr.

Mrs. J. W. Sowers, Sr., Sowers Nursery, Lexington, N. C., died recently at her Lexington home after a long illness. She was 65. Born at Mouth of Wilson, Va., Mrs. Sowers moved to Thomasville, N. C., after her marriage. There she and her husband started a florists' and nursery business known as Sowers Greenhouses. Mr. and Mrs. Sowers moved to Lexington in 1952 to start the present operation, Sowers Nursery, from which Mrs. Sowers was forced to retire some time ago because of ill health. She is survived by her husband, two daughters, four sons, her sister and nine grandchildren.

#### Paul M. Hubbard

Paul M. Hubbard, who founded and was first president of Bristol Nurseries, Inc., Bristol, Conn., died at a Bristol hospital June 23 after a brief illness. During the latter part of his life he had been active in the florists' field and had served as vice-president of the Connecticut Florists' Association.

#### John Wesley Hunsinger

John Wesley Hunsinger, 51, owner of the H & H Nursery, Downey, Calif., died June 11 in a local hospital. Mr. Hunsinger was born in New Jersey and had been a resident of

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Downey for the past 10 years. Survivors include his widow, Violet Hunsinger; his mother, and four brothers.

#### E. S. Atwood

E. S. Atwood, retired nurseryman and resident of Tyler, Tex., for 68 years, died at a hospital there June 27. He was 77.

Mr. Atwood was a member of the Pine Springs Baptist church. His survivors include the widow; three sons, Chester Atwood, Ben Wheeler, Tex., and James Atwood and Jack Atwood, Tyler, and a daughter, Mrs. Isabella Pinkerton, Tyler.

#### TEDDER SUCCEEDS DYESS

E. F. Tedder was elected president of Consolidated Nurseries, Inc., Tyler, Tex., at a meeting of the company's board of directors held June 30. Mr. Tedder, former executive vice-president of the corporation, succeeds W. D. Dyess, who resigned as of that date to devote more time to his other business interests.

Other Consolidated Nurseries executives named to new positions at the board meeting are C. A. Drago, executive vice-president; Stanley Smith, secretary-treasurer, and Mrs. Sue Corbin, assistant in sales to Mr. Drago.

Mr. Dyess, who has been associated with the organization since its establishment in 1948 by the late C. J. Lauden, is also owner of Ty-Tex Rose Nurseries and Southland Rose Nurseries, Tyler. He was named president of Consolidated Nurseries last March after Mr. Lauden's death in an automobile accident.

**PURCHASED** by Harold K. Hoffman, Hoffman Seed & Nursery Co., Hiawatha, Kan., was Lambert & Dickerson, also a seed and nursery business at Hiawatha.

**OPENED** recently was the Redwood Garden Center, by the Sheboygan Greenhouses & Floral Shop, Sheboygan, Wis.

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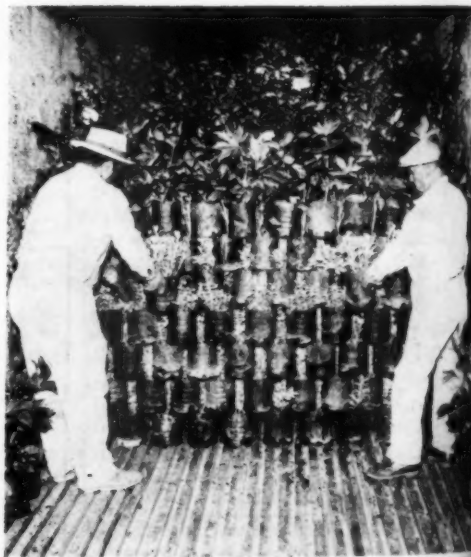
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# PLANT NOTES HERE AND THERE

By C. W. Wood

## Anemone Pulsatilla Varieties

A Pennsylvania reader writes in part as follows: "I have the offer from an English relative of several varieties, or closely related species, of *Anemone pulsatilla*, including *A. albana* and *A. montana*. I should like to know more about them before spending time and space on them. Will you please tell me something of their garden value?"

Let us first dispose of the two mentioned in the letter. At one time, I had a long list of *pulsatilla* forms under observation, including the Caucasian *A. albana*. It was smaller than most of its relatives, seldom exceeding six inches; it also varied somewhat in color — enough, in fact, to make it an interesting subject for the plant breeder. The usual color is mauve to pale lilac, although purple is not uncommon, and one sees a pure white form mentioned in the literature. Variety *lutea*, indicating a yellow-flowered kind, is also mentioned, but I never was able to track it down, despite intensive search.

As the name implies, *A. montana* is a mountain form of *pulsatilla*, growing to a height of six inches or so, with dark violet flowers. It is one of the few pasqueflowers that seemed to need acid soil. Another mountaineer, *A. halleri* from Switzerland, would, I think, please nursery clients even more than would *A. montana*. It has the same stature, but instead of the glabrous leaves of the latter, it is a silvery (white hairs) little beauty. In flower color it should be a deep, glowing violet, though it varied a little in plants I grew from European seeds. It needs a little more moisture than ordinary *pulsatilla*, being helped by a leafy soil on the acid side.

The most exciting one that I have seen is the plant known in gardens as *A. grandis*. It is a glorified form of *A. pulsatilla*, so far as the gardener is concerned, with flowers almost twice as large as common *pulsatilla*, and the color is an especially pleasing, glowing purple. It is a flower to excite the most blasé gardener and needs no more than ordinary pasqueflowers care.

If one cares to search farther, he will find many others of the group, most being merely geographical forms of the widely distributed *A. pulsatilla*. Space will not be taken

here to describe them, for they, including *armena*, *cernua*, *chinensis*, *propera*, *regeliana* and *rubra*, differ more in the shade of their violet or purple color than in other ways.

For what it is worth, I set down the opinion that any form of *A. pulsatilla* that the neighborhood grower can get would be good property in his hands. They are easy to grow from fall-sown seeds, do well in any sunny, well-drained spot and transplant well when in full bloom if care is taken to get a ball of soil with the roots when the plants are dug.

## Silene Virginica

An Ohio correspondent writes that he is utterly confused by what he reads and sees of *Silene virginica*, the fire pink. He wonders if the plant is as erratic as the literature implies. After one has grown the plant under varying conditions for a few years he will understand part of the confusion. For instance, if he grows it

in poor, well-drained soil, he will get plants to fit the description of writers who say it grows about 10 inches tall. He will likely find it is among the most permanent of silenes, even to the point of self-sowing. If my experience means anything, rich soil with plenty of moisture may produce a plant of 20 inches, or even more, and a shortened span of life. The plant has a tendency to be sprawly even in poor soil; in rich soil it is so much worse that it loses most of its charm. The discrepancies in time of flowering are not so easily explained. I found that removal of the flowers as soon as they faded (to prevent seed formation) tends to make it a summerlong bloomer, quite prodigious during June and more sparing later. But that does not explain the statement in "Hortus" that the blooming period extends from May to September — a statement that was probably based on the plant's behavior in nature. If

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WACHAPREAGUE, VIRGINIA

plants were given their own way in my trials, they bloomed about a month in late spring and early summer. That seems to agree with what Maude Jacobs recorded when she was with the Chicago park board: "In the Chicago area I have always found the fire pink flowering at the same time as *Mertensia virginica* and other typical spring flowers. The period of bloom is from three to four weeks."

In summing up, then, I suggest the following: Give it a poor, dry, rocky soil, insuring good drainage, in light shade for a long, happy life. Do not allow seeds to form if you want an extra-long flowering period. Although the color varies a little, it is nearly always safe to call it crimson scarlet, for that will catch it at both ends. It comes readily from fall-sown seeds. Plants are usually available from dealers in native plants, and seeds are sometimes listed.

### Good Perennial Borage

As known in gardens, the genus *Borago* usually is restricted to *Borago officinalis*, a rather coarse annual that seems to be of most interest to the cook and the herbalist. There are a few perennial species, however, some of them quite ornamental. Of

the latter, *B. laxiflora* is about the best that has been in my trials. Like most Corsican plants, it is too uncertain this far north (northern Michigan), although it usually goes through the winter if it has a protecting covering of snow. And it is easily grown from seed, often blooming the first year if seeds are started into growth in March.

The literature tells us that the plant grows naturally in moist, shady places in the mountains of Corsica. Here I found that it got along quite well with the ordinary amount of moisture if given shade. I had especially good results when it was planted in a north wall. Its trailing habit makes it an ideal wall plant, and the admirable trait of blooming from April until the frosts

of autumn (opal-blue stars set among rough, dark green leaves) gives it a prominent place among the champion long-time bloomers.

### *Lobelia Siphilitica*

I just came upon a note in one of my garden books for 1938 that may be of interest to other plantmen. It reads, in part, as follows: "Three or four plants of *Lobelia siphilitica*, set out last spring in a dry spot in the garden for want of a better place, are now (mid-August) astonishing me by their performance. Of course, they do not qualify for the common name of great lobelia, which the plant's 3-foot stature in wet places in nature have given it, for they do not exceed a foot in my garden. But everything about them is in propor-

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18 to 24 ins., 2-yr., T.....	40.00	.....
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### Nyssa sylvatica (Sour Gum)

18 to 24 ins., S.....	5.00	45.00
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6 to 8 ft., br.....	150.00	.....

### Lonicera halliana (Hall's Honeysuckle)

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10 to 15 leads.....	6.00	50.00
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tion to their height, making them splendid subjects for special uses in the landscape."

### Sweet Violets in Frames

A central Ohio reader, near a good flower market, thinks he sees an opportunity to harvest a little profit during the winter months from sweet violets grown in frames and asks for comments. I never grow them commercially, so cannot speak with authority on that phase of the subject, but in my old garden in Ohio and in a few instances in northern Michigan I tried them on a small scale. It takes a cool house to do anything with them during December, January and February this far north, but in central Ohio and similar climates frame culture should be entirely satisfactory. A schedule of operations, as used here and in northern Ohio, may be condensed as follows:

Prepare a frame by filling it with composted loam, leaf mold and well-rotted manure. Wet it down thoroughly and let it settle for a few days. Then lift the violet plants from the field with a ball of earth, setting them a foot apart each way. First of all, see that the drainage is perfect. If there is any question about it, put in five or six inches of sifted ashes or coarse gravel and then put on about eight inches of compost. After planting, give a thorough watering and keep the frame closed and shaded during the day, ventilating freely at night when weather permits. Do this for about a week, after which the plants should be gradually accustomed to air and light until they can stand full exposure without wilting. They may then be left uncovered whenever the weather permits.

Treatment after winter comes depends upon the climate. In sections where mats will keep out frost, the plants may be kept growing and blooming all winter. In such sections, the covering should be on at night and also during the day when freezing weather threatens. Mulch the plants, if you operate in cold-frames, after the ground freezes and wait until spring before trying to induce growth by the use of glass.

Be careful about watering during dull weather. Diseased and decaying leaves should be removed and burned promptly. Stir the soil frequently around the plants and trust to the gods for a bountiful harvest of fragrant flowers. As I have not tried frame culture for violets during recent years, I cannot say which of present-day varieties are the best, but my trials some 20 years ago showed that Mrs. David Lloyd George and Princess of Wales, both

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single-flowering varieties, were the best of that day.

### Lilium Elegans

Although the lily sophisticates may look upon Lilium elegans as too plebeian for their consideration, the group contains not a little of interest to the maker of landscape pictures (as variety aurantiacum, with unspotted, salmon-colored flowers) and of value to the indoor gardener. It is in the latter role that I should like to consider them briefly under the following, or a similar, program.

Pot strong bulbs in autumn before the ground freezes solid, using the best garden soil, lightened with sand if it is heavy clay, and work in a generous quantity of leaf mold. Put the pots in the root cellar, and keep the soil reasonably moist during the winter. In late winter (February or March, depending upon the temperature of the root cellar) the bulbs will commence to show top growth in the form of white knobs on the surface of the soil, when they may be brought to growing temperature. The rapidity with which they come into bloom is surprising. In most sections this will prove to be a real novelty in pot plants.

### Amsonia

I am amazed year after year to see how a small planting of Amsonia tabernaemontana in a heavy grass sod in this garden maintains itself despite all its handicaps. The florists state that it grows naturally in moist soil from New Jersey to Texas; garden literature advises it growing in moist soil or, in absence of continuous moisture, giving it shade. The plants mentioned have been in my garden for a quarter of a century in full sun in naturally dry, light soil and, for 20 years of that time, in a heavy sod. Although they do not make the 3-foot growths generally ascribed to them (they get around two feet tall), they still produce their dense clusters of steel-blue stars dur-

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Boston Ivy  
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lilac, Magnolia, Camellia, Pyracantha.  
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**Wight NURSERIES** CAIRO, GA.

ing late May and June and are attractive from spring until fall. It all speaks highly of the plant's adaptability and of its usefulness to gardeners who can see virtue in plants less vividly colored than Red Emperor tulips. It should be also of interest to flower arrangers, of which we now have myriads. It lasts a long time when cut, unlike many members of the dogbane family, whose milky juice is the bane of cut flower users. Its unique blue color and shape of flower should also endear it to flower arrangers. It comes readily from fall-sown seeds.

### Penstemon Hirsutus

An eastern correspondent writes as follows: "I have searched long and diligently for a good permanent penstemon. I thought I had found it when I read of *P. hirsutus* in a catalog, but it turned out to be just another dud, highly variable, short-lived and poorly colored. As I remember, I saw some good colors in them when I was at your place with my father 20 years or more ago. What can you suggest?"

This species, which is found all over the eastern United States from Maine to Wisconsin and through the Ohio valley, has varied not a little in height, color and longevity. The florists give it a maximum height of three feet; in northern Michigan, I do not now recall that it ever exceeded half of that figure, and it shrinks down to five or six inches in a freakish form known as pygmaeus. As to length of life, I cannot be so sure. I had some plants on a gravel bank that lasted several years and would probably be there yet if they had not been moved to make room for other plants. I am told that it tends to be quite short-lived in heavy soil, seldom lasting over one flowering season. So, if I were trying to make it permanent, I would give it a gravelly soil with a little leaf mold. Although no color form that I ever grew was really exciting, I had some pleasing shades of violet. And of recent years I have seen a strain called Gladwyne varieties that is far superior to anything I ever expected in the old days. The colors were all clear, rich shades of purple and violet. I also saw some that were approaching rose pink. I shall be glad to refer anyone interested in the Gladwyne varieties to a source for further information on the strain.

RECENTLY sold was the property on which John P. and Dollie Chalmers, San Francisco, Calif., owned and operated a nursery for the past four years.

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## NEWARK ROSE FESTIVAL

All-time attendance records were smashed daily by the estimated 245,000 visitors who streamed into the 17-acre Jackson & Perkins Co. rose garden during the nine days of the 28th annual rose festival at Newark, N. Y., June 20 to 28.

Coming from all parts of the United States, including Hawaii and Alaska, the visitors found 36,000 rose plants at their peak bloom. While some rain fell — increasing the quality and quantity of bloom — all but one of the outdoor events proceeded according to schedule under clear blue skies.

Three events climaxed the festivities during the final week-end. The annual rose show was held on Saturday, June 27, and on Sunday a 4-H Club rose queen was honored and a fashion show staged in the amphitheater adjoining the rose garden.

## HYDRANGEAS

[Continued from page 15]

flower clusters bloom as erect panicles, four to 10 inches high, with the outer flowers sterile; the leaves are about the same general shape as those of the red oak.

The oak-leaved hydrangea is stoloniferous, handsome in flower and leaf, and in the right situations, the leaves turn a brilliant reddish color in the fall. In fact, in many places of the north where it kills to the ground in winter, it is grown merely for its handsome foliage, since it blooms on wood formed the previous year. Usually, it can be grown in sunnier and dried situations than many of the other hydrangeas. Our arboretum plant blooms every few years and has been growing in the same spot for 45 years.

## Silver-Leaved Form

*H. radiata*: An attractive native form of this daintily flowered hybrid plant is hardy in zone 4. It forms a shrub three to six feet high, with white flower clusters about two to five inches across, of both fertile and sterile flowers, in June and July. Its most ornamental characteristic is the extremely white tomentose under surface of the leaves, from which it is given the common name, silver-leaved hydrangea.

*H. serrata acuminata*: A Japanese form of this daintily flowered hydrangea species, which grows only about three feet tall, is merely suggested here for trial in zone 5 or 6. It is just barely hardy in Boston, being badly injured some winters, but has bloomed every few years in the Arnold Arboretum since 1917. The

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2000 Juniper, Pfitzer, Hetz, etc., 2 ft. and up  
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25,000 Taxus, flat-grown, R. C., 3-yr., heavy  
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Will be potting up surplus rooted cuttings in September. Reserve your orders at once for fall delivery. Inspection and selection invited at all times.

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**FLORIDA - GROWN CITRUS**  
4-in. and 6-in. plastic pots.  
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flower clusters are mostly flat, about two to four inches in diameter, and the ray flowers are usually blue, especially in acid soils. It certainly will not take the place of the conspicuously flowered *H. macrophylla* varieties, but is daintier in habit and flower and is slightly hardier.

*H. serrata rosalba* is similar to the preceding, but the ray flowers are usually white and pink. This variety is popular in Great Britain, where alkaline soils insure the pink flower color. The fertile central flowers are either pink or blue, but the larger ray flowers open white and then gradually turn pink, doing well in shaded situations.

### For the South Only

*H. strigosa macrophylla*: A Chinese plant and hardy only in zone 7, this August-blooming hydrangea might be considered rather coarse, since it is seven feet tall, the flower clusters are as much as eight inches in diameter and the leaves are up to 12 inches long. However, this large-leaved variety has ray flowers in the clusters as much as two inches across. They are a pale purple color, turning red as they age, remaining conspicuous for several weeks in the fall. It might well be tried in suitable areas of the south.

*H. xanthoneura wilsoni*: This Wilson yellow-veined hydrangea is a 7 to 10-foot-high introduction from central China, hardy in zone 5. It is the more ornamental variety of the species, so named because the veins of the 4 to 7-inch-long, lustrous green leaves are usually yellowish. The flower clusters are slightly convex, up to six inches across. Closely related to *H. bretschneideri*, it has considerable beauty in flower during July. The original plant, grown from seed E. H. Wilson collected in China in 1909, is still thriving in the Arnold Arboretum.

### To Be Overlooked

These hydrangeas might be overlooked as ornamentals:

- H. anomala*—somewhat similar to *H. petiolaris*, but less hardy and less vigorous. In fact, some botanists classify *H. petiolaris* merely as a variety of this species.
- H. arborescens*—not particularly attractive; variety *grandiflora* is better.
- H. arborescens australis*—differs little from species.
- H. arborescens oblonga*—differs little from species.
- H. arborescens sterilis*—of little ornamental value.
- H. aspera*—differs little from *H. strigosa*, not very decorative.
- H. bretschneideri*—flowers do not retain ornamental interest long; leaves are coarse in texture.
- H. canescens*—resembles *H. cinerea*, not effective.

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Packaged or Bulk  
**GILMORE PLANT & BULB CO.**  
Julian, N. C.



- H. chinensis—extremely rare, hardy only in zone 7.  
 H. cinerea—similar in general effect to H. arborescens.  
 H. cinerea sterilis—similar to H. arborescens grandiflora, but less effective.  
 H. davidi — probably extremely rare, hardy only in zone 7.  
 H. dumicola—not especially ornamental, hardy only in zone 7.  
 H. heteromalla—interesting, but hardy only in zone 7, and some forms have no ornamental value.  
 H. hypoglauca — related to H. bretschneideri, not outstanding.  
 H. involucrata—hardy in zone 7; the variety H. involucrata hortensis is the better ornamental.  
 H. longipes—of no ornamental value.  
 H. macrophylla maculata—leaves edged white, not especially outstanding in the garden.  
 H. macrophylla nigra—identical (and probably a synonym) with H. macrophylla mandshurica.  
 H. macrophylla normalis—not an ornamental.  
 H. macrophylla rosea—somewhat similar to variety normalis.  
 H. paniculata—the two varieties of this species are better ornamentals. Alfred Rehder has considered the varieties floribunda and tardiva merely synonyms of this species.  
 H. robusta—hardy in zone 7, but if available is certainly worthy of a trial in the deep south.  
 H. rosthornii—somewhat similar to H. robusta, hardy in zone 7, handsome in flower.  
 H. sargentiana—of little value for ordinary garden use, hardy in zone 7; interesting because of large leaves up to 10 inches long and purplish on the young growth, best grown in shade.  
 H. scandens—the truly ornamental forms of this species (hardy in zone 7) are probably not in America. There are said to be some excellent forms in Japanese gardens.  
 H. serrata—not so ornamental as other varieties.  
 H. serrata prolifera—not so ornamental as other varieties of this species.  
 H. serrata pubescens—of botanical interest only.  
 H. strigosa—not very ornamental, hardy in zone 7; closely related to H. aspera.  
 H. villosa—closely related to H. aspera; hardy in zone 7, this may have value in the lower south, especially in alkaline soils, but experiences differ greatly with it.  
 H. xanthoneura—the variety wilsoni is the better ornamental.  
 H. xanthoneura setchuenensis — differs little from the species.

**HONORING** William L. Wicks and Angelo Spasato, employees at Bagatelle Nurseries, Huntington Station, N. Y., for 30 years and 25 years, respectively, a testimonial dinner was held at the home of the manager, John Newhouse. Gifts were presented to the two men by R. P. Baruch, president.

**FOSTER'S NURSERY**, York Harbor, N. H., opened a branch at Kittery, N. H. Mr. Foster has operated the nursery at York Harbor for 11 years, and the firm has been in his family for 40 years.



## Ogallala

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## CALIFORNIA ASSOCIATION OF NURSERYMEN

ELMER J. MERZ, Executive Secretary  
304 MITAU BUILDING SACRAMENTO 14, CALIF.

### SAN DIEGO CHAPTER

The board of directors of the San Diego chapter of the California Association of Nurserymen met July 2 in the home of Mrs. Ronald C. Jensen, San Diego. Attending the meeting were President Phillip Seeman, Seeman's Nursery, San Diego; Craig Smith, treasurer; George James; Charles E. Dibb, F. W. James & Son, National City; Ernest Otto; Frank Dawson, and Ada L. Perry, secretary.

Applications for membership were accepted from W. H. Collins, Nurseryland Garden Center, El Cajon, and John Ortutay, Jr., and Peter Millenaar, partners who have brought Pacific Beach Gardens, San Diego, from George Askelsen. Appointed members of the 1960 nominating committee by President Seeman were Mrs. Jensen, Mr. Smith and Mr. Otto.

Mr. Seeman then announced the following prizes won in various categories by the chapter at the San Diego county fair flower show: Tuberos-rooted begonias, third prize; ferns, fifth prize; hydrangeas, third prize; outdoor living room, second prize; pelargoniums and geraniums, first prize, and roses, third prize. A motion was passed to honor the fair workers, headed by Mr. and Mrs. Dibb, at the next chapter meeting.

Before the meeting was adjourned, the directors decided that the group advertising campaign be taken up again in September. At a previous meeting of the directors Mrs. Jensen reported that the chapter's group advertising bank account was in the black. It was then decided by the group that questionnaires be sent to members to find what month the next group ad should be run, suggestions for the next ad and their degrees of satisfaction on the ads in general.

Ada L. Perry, Sec'y.

### TRI-COUNTY CHAPTER

The Women's Center, Ventura, was the site of the June 26 meeting of the Tri-County chapter of the California Association of Nurserymen. Twenty persons were present.

Correspondence read from the Los Prietos boys' camp indicated that the

camp now has the tools with which to care for the materials the nurserymen had donated.

A letter from Elmer Merz, executive secretary of the C. A. N., expressed the wish of the C. A. N. for the chapter to indicate the aspects of the stronger nursery license that the group desires to see enacted by the state legislature. It was arranged that the chapter barbecue will be held August 28 at the home of Dr. and Mrs. Carl Wolf, La Cienega Nursery, Fillmore.

Mrs. Ruth Curtis, president, then appointed the following as members of the nominating committee for the coming election: George Steelman, Steelman Nursery, Camarillo; Mavro Warren, Somis, and Ralph Curtis, Ventura.

Howard Lorbeer, program chairman, introduced Dr. Carl Wolf as the speaker of the evening. Dr. Wolf, who was recently elected dis-

trict governor of Rotary International, showed slides of the gardens and countryside that he saw in European travels of over 11,000 miles. Walter S. Barrows, Sec'y.

### LOS ANGELES CHAPTER

Dinner was served to 87 members and guests of the Los Angeles chapter, California Association of Nurserymen, at Marshall's Camellia Gardens, San Gabriel, when the chapter's meeting was held there Wednesday, June 24.

The meeting was called to order by President Harold J. Botts, Botts Nursery, Anaheim, who introduced the guests present, including Elmer Merz and James Perry, C. A. N. executive secretary and president, respectively; Ed Tedder, Consolidated Nurseries, Inc., Tyler, Tex., and Howard Le Moine, Roy-L Orchids, Bell, a new member of the chapter.

The chapter vice-president, Chuck Vogels, Chuck's Nursery, Covina, introduced Gus Chamberlain, Downey Fertilizer Co., Downey, who conducted a spirited auction of plant materials and supplies brought to the meeting, including dieffenbachia, philodendron, lantana, petunias, plant food, a shade umbrella and even a 6-foot evergreen elm (to be

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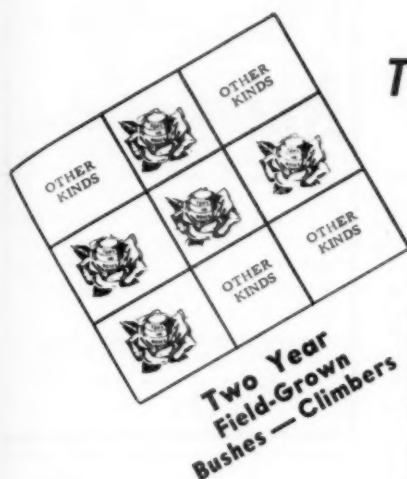
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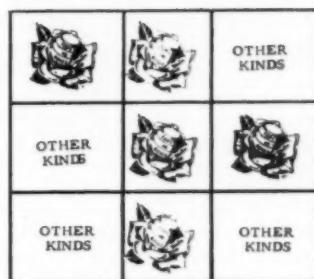
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delivered later). Mr. Chamberlain was assisted by Neil Campbell, Better Gardens, San Marino, and Vice-president Vogels.

Dick Meadows, Sec'y.

#### CALIFORNIA NOTES

The Peninsula chapter of the California Association of Nurserymen was given oral previews of roses that will be introduced several years from now. Among those reported on were Suspense, Fascinating, Simone and an unnamed floribunda developed by Svend Poulsen.

The annual turfgrass conference held June 23 at the Diablo Country Club, Diablo, under the joint sponsorship of the University of California extension service and the Northern California Turfgrass Council was one of the best attended of the many such meetings that have been held. The theme of the sessions was "Turfgrass Traffic Problems," and watering, rolling, mowing, feeding and treating for disease and insect control were among the topics discussed by faculty and trade speakers.

Santa Clara county will have a new reservoir park by January 1, 1961, according to a report made by Harvey Banks, director of state wa-

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ter resources. The new recreational area will cover about 500 acres surrounding a new percolation dam near Milpitas. In addition to water facilities there will be a golf course, camping sites, picnic sites and other recreational areas.

Montalvo, an extensive estate near Saratoga left by the late Senator James Phelan as a place where writers and artists may work in solitude at almost no cost to themselves, is suggesting to the state or the county that it be opened to the public as an arboretum in order that tax funds may be obtained to help support it. The estate includes trees from nearly all parts of the world.

The west bay permanent medical auxiliary has published a list of garden plants that are poisoners. Included in the list are over 25 commonly grown bulbous, annual and perennial plants, as well as woody

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shrubs and trees that produce toxins in their seeds, stems, leaves or fruits. The publication gives first aid as well as other information on control of the illnesses produced by these toxins.

San Mateo county's farm adviser R. H. Sciaroni recently published Flower Notes, and in it is included a complete description of azalea root rot and its control. The article may be obtained on request from the farm adviser's office, Half Moon Bay.

Sunset magazine has published a list of the newer weed killers. It classifies the chemicals for use in established lawns, for a knockdown of all vegetation, for pre-emergence weed control and for soil sterilization. It gives uses, rates and application and precautions to be observed. Reprints of the article can be had on application from the publishers.

Nurserymen who are suffering



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damage from deer's grazing in their plantings, and who can do nothing about it because of state laws, protecting the deer, can obtain from the California state fish and game commission a list of deer repellents. The authors explain that, although each of the materials may be effective under some conditions, one cannot be assured that all deer damage will be stopped.

Sales, at the retail level, are reported to have been about equal to those of a year ago. It has, however, been a spotty spring, with heavy sales for a period followed by slumps that seemed unexplainable. In general, the business has varied with the weather. The extremely dry winter discouraged garden work, and the variable, rather dry spring caused buyers to work on some week-ends and to stay out of the gardens on others. A number of nurserymen report a decided change in the buying habits of home gardeners. Saturday and Sunday no longer are the only buying days of the week. Apparently buyers plan their purchases throughout the week and by week-end are ready to work in their gardens. Monday, on the other hand, is a rather busy day. This may be partly because an increasing number of homeowners are employing maintenance gardeners, and these men have no need for supplies during the week-end but stock up before starting out on Monday morning.

Oakland residents are attempting to raise enough money to move two rare Washingtonia filifera palms. They are on the right of way of a new freeway, and the Oakland park department reports it can move the 75-foot, 80-year-old trees if enough money can be raised to transplant them into the median strip between traffic lanes of the new freeway.

W. B. B.

### OREGON NOTES

August 19 has been set by the Oregon Centennial Exposition as Nurserymen's, Landscapers' and Florists' day, according to Joe Klupenger, Klupenger Nursery, Portland, who is chairman of the coordinating committee for the "International Garden of Tomorrow." Plans call for a catered meal, a good speaker and perhaps a boat trip by the entire group from downtown Portland to the exposition grounds and return.

Edsal Wood, Wood Floral Co., Portland, has been named as the ornamental growers' representative on the committee that will work with the new North Willamette valley experiment station, presenting



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ideas for research. Oregon nurserymen who have research projects in mind are asked to contact Mr. Wood at 819 northeast 122nd avenue, Portland.

Both the Columbia River and Willamette chapters of the Oregon Association of Nurserymen are canceling their August meetings as an incentive toward building attendance at the nurserymen's Indian summer meeting of the chapters of the O. A. N. at Gearhart, September 24 to 26.

The Emerald Empire chapter of the O. A. N. met at Ford's Dinner House, June 25. Conducting the meeting was Vern Cornelius, Westside Lawn & Landscaping Co., Eugene, president. Tables were decorated with hibiscus from the greenhouses of the Myers Begonia Gardens. During the evening the group heard from O. A. N. executive secretary, Charles H. Potter, Milwaukie.

The transportation committee of the O. A. N. met at the Portland Wholesale Nursery Co., Portland, July 9. Leading the meeting was Wayne McGill, A. McGill & Son, Fairview, who presided in the absence of Chairman Bob Mullison, now in the east on business for his firm, A. McGill & Son. The purpose of the meeting was to discuss the proposed increase in refrigerated car railroad freight minimum to 40,000 pounds. It is understood that the rate proposed would apply presently only to fresh fruit and vegetables being shipped from Arizona and California. However, the committee intends to keep a close eye on the situation and will make known the feeling of nurserymen and effect of the change on the nursery industry should it later on be applied to nursery stock.

Forty members of the Columbia River chapter of the O. A. N. met at the Kitchen Kettle restaurant, Portland, June 25. Conducting the meeting was President Hans Nelson, Nelson Rose & Holly Farm, Troutdale. Joe Klupenger talked briefly about the "International Garden of Tomorrow" at the Oregon Centennial Exposition. Arthur Suhr, Mount Hood Nursery, Gresham, showed some interesting slides of Hawaiian scenery.

According to word received from James Doty, Doty & Doerner, Inc., Portland, who is chairman of the nurserymen's Indian summer session to be held at Gearhart September 24 to 26, A. McGill & Son, Fairview, has underwritten a first-run musical movie to be shown on one evening. A report of the American Association of Nurserymen's conven-

[Concluded on page 65.]



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Forms for September 15 issue will close Friday, August 21.

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Mentor, Ohio

Write for Trade List.

## PITZONKA'S FIELD-GROWN

Strong field-grown plants. Write for trade  
 list.

## PITZONKA'S PANSY FARM &amp; NURSERY

Bristol, Pa.

Liriope, hardy, evergreen, for walks and  
 borders; good, strong divisions, \$20.00 per  
 1000. Mountville Nurseries, Mountville, Ga.

**WELLS BETTER PERENNIALS**  
**WELLS NURSERIES CO., Holland, Mich.**  
 Write for trade list.

## HELEBORUS

## HELEBORUS NIGER

(Christmas Rose)

3-yr. transplants, blooming size.

Suitable to put up for sales on roadside  
 stands and garden centers.

\$50.00 per 100, \$450.00 per 1000.

**C. HOOGEENDOORN**

Turner Rd. Newport, R. I.

## HOLLY

**ILEX OPACA**  
**SUPERIOR NAMED VARIETIES**  
**WHOLESALE SUPPLIERS**  
**OF LINING-OUT STOCK**  
 Write for our price list.

**HOLLY HAVEN, INC.**

Box 75 New Lisbon, N. J.

## HONEYSUCKLES

## HONEYSUCKLES

Lonicera japonica halliana, extra-heavy  
 No. 1, 3 and 4-yr., 15 to 24-in. field plants,  
 3, 4 to 6 leads, \$40.00 per 1000; lighter  
 grade, \$30.00 per 1000; sample, 100, \$4.00.  
 Experienced labor for grading and packing  
 quantity orders. Immediate shipment. No  
 order too large. Phone OR 2-4612.  
**ROBINSON NURSERY CO., Greenville, Ga.**

## IRISES

## IRISES

Many of the best varieties including the  
 Dyke Medal Winners. Not less than 10 of a  
 kind.

EACH	EACH
Helen McGregor, \$0.15	Louvois, \$0.10
Wabash, .12	Mulberry Rose, .14
Ola Kala, .15	Jake, .12
Dauntless, .12	Golden Treasure, .12
Blue Rhythm, .12	Ming Yellow, .12
Blue Shimmer, .12	Tiffania, .12
Tiffany, .12	Golden Fleece, .12
Fairy, .10	Azure Skies, .15

## DWARF IRISES

The Bride, wh., \$0.10  
 Maracain, pur., .10

Order a collection, 10 each of 10 varieties,  
 our selection, in a good color range. We will  
 put in 10 per cent extra roots.  
 Oriental Poppy, scarlet liners, \$ 6.00 per 100  
 Peonies, pink; 3 to 5-eye, 25.00 per 100  
**THE MOSES NURSERIES, LIMA, N. Y.**

## TALL BEARDED IRISES

Berkeley Gold, Blue Rhythm, Grand Can-  
 yon, Los Angeles, Red Dominion, Wabash,  
 \$1.50 per 10, \$12.00 per 100. Desert Song, El-  
 mohr, H. McGregor, Inspiration, Lady Bosca-  
 wen, Lady Mohr, New Snow, Ola Kala, Pink  
 Cameo, Rocket, Sable, Red Douglas, \$2.00  
 per 10, \$15.00 per 100. Cascade Splendor,  
 Casa Morena, Extravaganza, Jane Phillips,  
 Gold Sovereign, Pinnacle, \$2.50 per 10, \$20.00  
 per 100. 5 at 10 rate; 25 at 100 rate. Send  
 for complete list.

**HURLEY NURSERY, PAINESVILLE, O.**

## IRISES FOR LANDSCAPING

In separate colors of red, pink, white, yellow,  
 bronze, blue, lavender, purple and  
 plicatas, \$10.00 per 100. Not less than 10 of  
 a color. Mixed colors, \$5.50 per 100. Fine  
 selection. Selected white blooming for these  
 offers.

Wholesale list free.

**SMITH'S IRIS GARDENS**

Box 483 Lewiston, Idaho

## BEARDED IRISES

Strong rhizomes dug to order.  
 5 to 24 of a variety at 24 rate;  
 25 or more of a variety take 100 rate.

Each, 24	100
Azure Skies, pale lavender-blue	\$0.20 \$0.15
Blue Rhythm, silver toned blue	.20 .15
Blue Shimmer, blue and white	.20 .15
plicata	.20 .15
Blue Valley, large medium blue	.25 .20
Cascade Splendor, pink, apricot	.30 .20
and tan	.30 .20
Cherie, flamingo-pink, tangerine	.40 .35
beard	.40 .35
China Maid, pink with copper-lilac	.20 .15
Chivalry, ruffled deep blue	.30 .18
Dauntless, red-purple	.20 .15
Dr. C. H. Mayo, deep lavender-pink	.20 .15
Frieda Mohr, lilac-rose	.20 .15
Golden Eagle, light clear yellow	.20 .18
Great Lakes, clear blue, white	.20 .15
beard	.20 .15
Gudrun, huge white, sprinkled gold	.20 .15
Indian Chief, bronze to velvety	.20 .15
crimson	.20 .15
Lady Mohr, large oyster-white	.25 .20
Matterhorn, gigantic pure white	.18 .15
Melanie, large orchid-pink	.20 .15
Missouri, glitening medium blue	.25 .18
Mystic Melody, yellow falls, cream	.50 .40
standards	.50 .40
New Snow, ruffled pure white	.25 .20
Nightfall, dark velvety, pa-ny-	.20 .15
purple	.20 .15
Ola Kala, deep yellow	.20 .15
Painted Desert, tan, brown and	.20 .15
violet	.20 .15
Paradise Pink, deep flamingo-pink	.30 .25
Pinnacle, white standards, yellow	.40 .30
falls	.40 .30
Rocket, brilliant orange	.25 .18
Sable, blue, black-violet	.25 .20
Snow Velvet, white with gold	.25 .18
throat	.25 .18
Stardom, salmon to copper blend	.25 .18
Three Oaks, rose and copper blend	.25 .18
Wabash, purple and white amona	.25 .20

## DWARF IRISES

Alba, dwarf creamy white, .20 .15  
 Florida, dwarf rich yellow, .20 .15  
**BEARDESS ORIENTAL IRISES**  
 Orientalia, blue, .20 .15  
 Orientalia, white, .20 .15  
 Send for our Peony, Iris, Day Lily list.  
**SARCOXIE NURSERIES PEONY FIELDS**  
 Wild Bros. Nursery Co. Sarcoxie, Mo.  
 Phone 43

## IRISES, WHOLESALE LIST

No finer Irises anywhere than we grow in  
 Idaho. Fine strong rhizomes from 1-yr.  
 clumps.

Following Irises, \$1.50 for 10.  
 Bandit, Blue Shimmer, Blue Rhythm, Blue  
 Valley, Chantilly, China Maid, Chinook Pass,  
 Chivalry, Cliffdell, Cuban Carnival, Concord  
 Velvet, Dawn Reflection, Daybreak, Easter  
 Bonnet, El Paso, Garnet Glow, Gay Border,  
 Great Lakes, Golden Frills, Illinois Sunshine,  
 Interlude, King's Jester, Lady Mohr, Light-  
 house, Mohrson, Mystic Melody, Mulberry  
 Rose, Norah, Rajah Brooke, Salmonette,  
 Song of Songs, Three Cheers, Velvet Dusk,  
 Voodoo, Wabash, Windsor.

Following Irises, \$2.00 per 10.  
 Alline Rogers, Arlene Woods, Black Or-  
 chid, Blue Elegance, Blue Mohr, Blue Para-  
 keet, Candy Stripe, Cardinal's Robe, Cen-  
 turian, Confetti, Cordovan, Flying Saucer,  
 Gala Finale, Harlequin, Heritage, Eli Parade,  
 Honor Bright, Mexico, New Hope, New Snow,  
 Ola Kala, Pacemaker, Paradise Pink, Fin-  
 nacle, Prospector, Russet Wings, Ruth, Snow-  
 sheen, Ten Sleep.

Following Irises, \$2.50 for 10.  
 Cahokia, Escapade, Flurry Mohr, Jane  
 Phillips, Leading Lady, Malay, Purrismohr,  
 Raven's Wing, Spade, Sun Ray,  
 Tango, Weatherbird, White Tower.

Following Irises, \$3.00 per 10.  
 Argus Pheasant, Bethel, Fabulous Kate,  
 Fantasy, Francis Kent, Gibson Girl, Golden  
 Gleam, Indian Nation, Mahan Gold, Maytime,  
 Persian Pattern, Quechee, Rose Splendor,  
 Sky Above, So Sweet, Technicolor.

Following Irises, \$3.50 per 10.  
 Black Castle, Black Mischief, Cascadian,  
 Castle Rock, Elfin Tracery, Illustrious, Mohr  
 Majesty, Pink Confection, Sparkle, The Mad  
 Hatter, Twenty Grand.

Following Irises, \$5.00 per 10.  
 Canyon Skies, Chinese White, Clara B,  
 Dianeva, Dreamy, Irish Charm, Memphis  
 Belle, Memories, Real Gold, Solid Gold, Sum-  
 mer Song, White Prairie, Whispers, Wonder-  
 bar, Yellow Organdy.

Not less than 5 at the 10 rate. Free whole-  
 sale price list.

**SMITH'S IRIS GARDENS**

Box 483 Dept. A N Lewiston, Idaho

**IRIS CRISTATA ALBA**  
 Rare, dwarf white crested Iris, \$20.00 per  
 100, \$175.00 per 1000. Ready for shipment  
 now. Cash with order, please. No C.O.D.  
 25 at 100 rate; 250 at 1000 rate.

**MATFAY NURSERIES**

R. D. 2 Nicholia, N. Y.

## IVIES

English Ivy, large and small leaf; good  
 plants from open field beds, \$5.00 per 100,  
 \$40.00 per 1000.  
 Mountville Nurseries, Mountville, Ga.

## BALTIC IVY.

Hardest Ivy. Fine for wall or ground  
 cover. True stock. Well-rooted plants.

	Per 100	Per 1000
Routed cuttings	\$ 7.00	\$ 65.00
2-in. pots	12.50	115.00

**NEW THORNDALE IVY**  
 2 1/2-in. pots ..... \$25.00 per 100  
 Euonymus kewensis, 2-in. pots, 20.00 per 100  
**EUONYMUS VEGETUS**  
 2-in. pots, \$12.00 per 100, \$110.00 per 1000.  
 2-yr. field-grown, \$35.00 per 100.  
**STRATFORD GARDENS**  
 Russell Breece, M. R. 9 Delaware, O.

## BALTIC IVY

	Per 100	Per 1000
2-in. pots	\$12.50	\$115.00

**NEIDEL'S NURSERY**  
 216 Park Ave. Oil City, Pa.

## LINING-OUT STOCK

## LINING-OUT STOCK

Bedded 1-yr. in the open	100	1000
Ilex convexa	\$20.00	\$180.00
Ilex rotundifolia	30.00	180.00
Ilex hetsi	30.00	180.00
Juniperus pateriana	30.00	180.00
Juniperus hetsi	30.00	180.00
Taxus andersoni	30.00	175.00
Taxus brevifolia	30.00	175.00
Taxus capitata, cutting-grown	35.00	225.00
Taxus capitata Adams	35.00	225.00
Taxus canadensis stricta	16.00	150.00
Taxus cuspidata	17.50	150.00
Taxus hatfieldi	17.50	150.00
Taxus hunnewelliana	17.50	150.00
Taxus nickelsii	17.50	150.00
Taxus intermedia	17.50	150.00
Taxus henryi	20.00	175.00
Taxus densiformis	20.00	175.00
Taxus vermeuleni	17.50	150.00
Taxus wardi	17.50	150.00
Taxus Moon's columnaris	30.00	175.00
Taxus brownii	17.50	150.00

2-yr. bedded in the open.  
 Ilex convexa, 6 to 9 ins. .... \$25.00 \$200.00  
 Ilex rotundifolia, 6 to 9 ins. .... 25.00 200.00  
 Ilex hetsi, 6 to 9 ins. .... 25.00 200.00  
 Taxus Adams col., 15 to 18 ins. 50.00 250.00  
 Taxus Moon's col., 8 to 12 ins. 30.00 250.00  
 Taxus cuspidata, 6 to 9 ins. .... 30.00 250.00  
 Taxus hatfieldi, 6 to 9 ins. .... 30.00 250.00  
 Taxus cuspidata comp.,  
 6 to 9 ins. .... 30.00 250.00  
 Taxus hunnewelliana, 6 to 9 ins. 30.00 250.00  
 Taxus brownii, 6 to 9 ins. .... 30.00 250.00  
 Taxus intermedia, 6 to 9 ins. .... 30.00 250.00

## TAXUS CAPITATA, SEEDLING-GROWN

	100	1000
1-yr. seedlings	\$ 6.00	\$ 50.00
2-yr. seedlings	10.00	90.00
3-yr. seedlings	17.50	150.00
4-yr. seedlings, trans-		

## CORNUS FLORIDA (WHITE DOGWOOD)

Seedlings	100	1000
1-yr., No. 1 grade	\$ 6.00	\$ 50.00
1-yr., No. 2 grade	5.00	40.00
1-yr., No. 3 grade	4.00	30.00
2-yr., No. 1 grade	12.50	100.00
2-yr., No. 2 grade	10.00	90.00

## Special prices on large quantities.

Full list on demand.

## VERKADE'S NURSERIES, WAYNE, N. J.

## POT-GROWN GRAFTS

All our understocks are potted up during  
 the spring, grown in frames in pots all summer  
 and grafted the following winter, ensur-  
 ing the best root system to be grown and  
 assures minimum losses.

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 assures minimum losses.

## POT-GROWN GRAFTS

## LINING-OUT STOCK—Continued

ROOTED CUTTINGS FROM GREENHOUSE ONLY		Per 100
<i>Taxus cuspidata</i> (Japanese Yew)	.....	\$12.00
<i>Taxus hatfieldi</i> .....		12.00
<i>Taxus hickii</i> .....		12.00
<i>Taxus capitata</i> .....		12.00
<i>Thuja nigra</i> .....		12.00
<i>Thuja pyramidalis</i> .....		10.00
<i>Thuja woodwardii</i> .....		10.00
<i>Ilex crenata convexa</i> (Boxleaf Holly)	.....	8.00
<i>Ilex opaca</i> (American Holly), male or female; 1-yr., from 3 1/2-in. pots	.....	27.50
<i>Pieris japonica</i> (Japanese Andromeda)	.....	22.50
<i>Euonymus coloratus</i> .....		11.00
SEEDLINGS		
<i>Pieris japonica</i> , 2-yr. T. ....		28.00
<i>Pieris japonica</i> , 3-yr. T. ....		38.00
<i>Azalea schlippenbachii</i> , 2-yr. T. bed.	.....	48.00
<i>Cotoneaster zabeli</i> miniat., 2-yr. ....		24.00
<i>Cotoneaster franchetii</i> , 2-yr. ....		24.00
<i>Cotoneaster dielsiana</i> , 2-yr. ....		24.00
<i>Larix decidua</i> (Larch), 2-yr. T., 10 ins.	.....	35.00
<i>Pinus densiflora</i> , 2-yr. T. ....		45.00
<i>Rhododendron wellerianum</i> , 2-yr., 6 to 7 ins.	.....	45.00
<i>Rhododendron roseum elegans</i> , 2-yr., T. beds	.....	50.00
<i>Rhododendron catawbiense</i> , 2-yr. T. beds	.....	42.00
<i>Rhododendrons</i> , hybrid seedlings, mixed; 2-yr. T. beds	.....	42.00
<i>Leucothoe catesbaei</i> , 2-yr. seedlings, T. beds	.....	35.00
ARBOR-WAY NURSERIES, INC.		
Old Sudbury Rd. South Lincoln, Mass.		

ROOTED CUTTINGS		Each
<i>Berberis julianae</i> .....		10c
<i>Cryptomeria japonica</i> .....		8c
<i>Ilex bullata</i> .....		6c
<i>Ilex crenata</i> .....		6c
<i>Ilex microphylla</i> .....		6c
<i>Ilex rotundifolia</i> .....		6c
<i>Juniperus hetzi glauca</i> .....		8c
<i>Retinopora obtusa nana</i> comp. ....		8c
<i>Taxus cuspidata</i> .....		9c
<i>Taxus E. No. 1</i> .....		10c
<i>Taxus hatfieldi</i> .....		10c
<i>Taxus Jeffrey's</i> .....		9c
<i>Taxus kelseyi</i> .....		9c
<i>Taxus T-31</i> .....		9c
Immediate delivery and packing free.		
ESHAM'S NURSERIES		
Millsboro, Del.		

LINING-OUT STOCK		Per 100	Per 500
<i>Taxus, henryi</i> , 2-yr. T. ....		\$27.00	\$25.00
<i>densiformis</i> , 2-yr. T. ....		27.00	25.00
<i>thayerae</i> , 2-yr. T. ....		27.00	25.00
<i>hickii</i> , 2-yr. T. ....		27.00	25.00
<i>hatfieldi</i> , 2-yr. T. ....		27.00	25.00
<i>Halloran</i> , 2-yr. T. ....		25.00	20.00
<i>Andromeda</i> , 3-yr. T. ....		40.00	35.00
<i>Cornus Kousa</i> , 4-yr. TT., br. ....		60.00	55.00
Write us for prices on quantities of 5000 or more.			
SOWAMS NURSERY			
82 Sowams Rd. Barrington, R. I.			

LINING-OUT STOCK		Per 100	Per 1000
<i>Juniperus chin. pfitzeriana</i> .....		\$15.00	\$140.00
<i>hibernica fastigiata</i> .....		16.00	150.00
<i>sabina</i> .....		16.00	150.00
<i>sabina Von Ehron</i> .....		16.00	150.00
<i>virginiana burkii</i> .....		20.00	190.00
<i>glauca hetzi</i> .....		11.00	100.00
<i>Ilex cornuta femina</i> .....		16.00	150.00
<i>Ilex cornuta burfordii</i> .....		16.00	150.00
<i>Nandina domestica</i> .....		11.00	100.00
<i>Photinia serrulata</i> .....		15.00	140.00
<i>Ligustrum Vicary</i> .....		15.00	140.00
In moisture-proof, lightweight cartons.			
EMIL R. BRESSER			
FLORIST & NURSERYMAN			
P. O. Box 973 Muskogee, Okla.			

EVERGREENS		Per 100	Per 1000
<i>Pfitzer Juniper</i> , 6 to 10 ins., 2-yr., bare-root	.....	\$0.07	\$0.70
<i>Pfitzer Juniper</i> , plant bands	.....	.16	1.60
<i>Von Ehron Juniper</i> , 6 to 10 ins., bare-root	.....	.06	.60
Less than 300 total order, 2c more per plant. Less than 50 of any item, 4c more per plant.			
McININCH GREENHOUSES			
St. Joseph, Mo.			

LINING-OUT STOCK		Per 100	Per 1000
<i>Ilex burfordii</i> , heavily rooted	.....	\$0.03	\$0.30
<i>Ilex rotundifolia</i> , heavily rooted	.....	.03	.30
<i>Ligustrum lucidum</i> , well-rooted	.....	.02	.20
<i>Roxwooda</i> , sempervirens and suffruticosa, 3 to 5 ins., well-rooted	.....	.04	.40
8 to 10 ins., well-rooted	.....	.10	1.00
E. F. DUBOIS NURSERY			
Huntsville, Ala.			

LINING-OUT STOCK		Per 100	Per 1000
<i>Ilex burfordii</i> , heavily rooted	.....	\$0.03	\$0.30
<i>Ilex rotundifolia</i> , heavily rooted	.....	.03	.30
<i>Ligustrum lucidum</i> , well-rooted	.....	.02	.20
<i>Roxwooda</i> , sempervirens and suffruticosa, 3 to 5 ins., well-rooted	.....	.04	.40
8 to 10 ins., well-rooted	.....	.10	1.00
E. F. DUBOIS NURSERY			
Huntsville, Ala.			

**ILEX CRENATA REPANDENS**  
**ILEX CRENATA HELLERI**  
 Beautiful plants; excellent tops and roots.  
 2 1/2-in. pots ..... \$3.00 per 10, \$25.00 per 100  
 2 1/2-in. pots ..... 5.50 per 10, 20.00 per 100  
**SOUTHSIDE NURSERIES, INC.**  
 R.F.D. 15, Box 471, Richmond, Va.  
 Taxus, Ilex, broad-leaved Evergreens, etc., in variety. Write for our latest list of liners and finished stock.  
 Del-Mar-Va Nurseries, Box 3, Lincoln, Del.

## MAPLES

NORWAY MAPLE		10-49	50-250
Straight trunks. Fine heads. Very fibrous roots.			
6 to 8 ft. ....	\$3.00	\$2.50	
8 to 10 ft., 1 to 1 1/4-in. ....	4.05	3.25	
9 to 11 ft., 1 1/4 to 1 3/4-in. ....	5.30	4.25	
10 to 12 ft., 1 3/4 to 2-in. ....	7.00	5.50	
11 to 13 ft., 2 to 2 1/2-in. ....	8.00	6.50	
PRINCETON NURSERIES			
Princeton, N. J.			

**COLLECTOR ACER**  
**RUBRUM AND SACCHARUM**  
 from whips to 4-in. caliper.  
**CURTIS NURSERIES, INC.**  
 Callicoon, N. Y.  
 Acers, saccharum and rubrum, root-pruned, field specimens, 2-in. to 12-in. caliper.  
 R. H. Rogers Nursery, Cooperstown, N. Y.

## PACHYSANDRAS

PACHYSANDRA TERMINALIS		Per 100	Per 1000
1-yr., field-grown	.....	\$ 5.00	\$ 45.00
(Lots of 5000, \$40.00 per 1000)			
2-yr., field-grown	.....	7.50	70.00
Free packing. Phone OHaw 4-3923.			
<b>HANSEN BROS. NURSERIES, INC.</b>			
1268 Montgomery Ave. Narberth, Pa.			
PACHYSANDRAS			
1-yr.-old, large frame plants.			
Satisfaction guaranteed.			
Large quantity.			
\$5.50 per 100, \$43.00 per 1000.			
\$40.00 per 5000.			
<b>BRUNDAGE &amp; GUTHRIE</b>			
123 Franklin St. Tarrytown, N. Y.			

PACHYSANDRAS		Strong rooted cuttings, \$4.25 per 100, \$40.00 per 1000.
<b>DUNWOODIE NURSERIES</b>		
6 Smart Ave. Yonkers, N. Y.		
Pachysandras, strong plants, grown in soil frames with light shade. First-class stock, \$5.00 per 100, \$50.00 per 1000; \$47.50 per 1000 for 5000 or more, including good packing.		
Peekskill Nursery, Shrub Oak, N. Y.		

PACHYSANDRA TERMINALIS		1-yr., field-grown, \$65.00 per 1000.
<b>HILLCREST GREENHOUSES</b>		
Miller Park Franklin, Pa.		

## PANSIES

PANSY SEED		Per oz.
1958 crop. High germination	.....	
Swiss Giants Improved, mixed	.....	\$5.50
Swiss Giants Florists' Strain, mixed	.....	5.50
Jumbo Giants, choice mixed	.....	5.00
Separate colors, pure white and pure yellow	.....	6.00
<b>PALACE GARDENS</b>		
P. O. Box 561 Kalamazoo, Mich.		

## For \$4.00

you can offer that surplus in a classified ad of 10 lines on these pages—quickly and easily turning stock into cash.

## At 40c PER LINE

you can keep a list of specialty items before trade buyers through the selling season at small cost.

Send your copy (count 6 average words to line) for the September 1 issue to reach us August 7.

Forms for the September 15 issue will close August 21.

## AMERICAN NURSERYMAN

343 S. Dearborn St. CHICAGO 4, ILL.

## PEONIES

PEONIES		3 to 5-eye divisions, from 3-yr. stock. Ask for special quotation on larger quantities.
Each, 10		100
<b>BARONESS SCHROEDER</b> , lead- ing white for cut flowers	.....	\$0.50 \$0.45
<b>CHERRY HILL</b> , garnet-red, early	.....	.50 .45
<b>EDULIS SUPERBA</b> , bright pink; early	.....	.40 .35
<b>FELIX CROUSSE</b> , rich ruby-red	.....	.50 .45
<b>FELIX SUPREME</b> (Cottage Gar- dens introduction, 1955). A SEN- sational new red cut	.....	10.00
<b>FLOWER</b> .....		
<b>FESTIVA MAXIMA</b> , pure white, early	.....	.50 .45
<b>FRANCES WILLARD</b> , white, lge. rich crimson	.....	.50 .45
<b>INSPECTEUR LAVERGNE</b> , early rich crimson	.....	.55 .50
<b>KARL ROSENFELD</b> , deep red	.....	.50 .45
<b>LA LORRAINE</b> , cream-white	.....	.60 .55
<b>LAURA DESSERT</b> , nearest to vel. white. A real beauty	.....	.70 .65
<b>MME. CLAUDE TAIN</b> , large, soft white. A real beauty	.....	.65 .60
<b>MME. DUCEL</b> , pink	.....	.45 .40
<b>MME. EMILE DEBATENE</b> , vivid pink	.....	.65 .60
<b>MME. EMILE DEBATENE</b> , high pink	.....	.50 .45
<b>MARTHA BULLOCK</b> , bright pink, late	.....	.65 .60
<b>MONS. JULES ELIE</b> , satiny pink, very large, early	.....	.45 .40
<b>MONS. MARTIN CAHUZAC</b> , maroon	.....	.75 .65
<b>REINE HORTENSE</b> (Frea. Taft), pink	.....	.45 .40
<b>RICHARD CARVEL</b> , bright crim- son, early	.....	.75 .65
<b>RIO GRANDE</b> , large dark crimson	.....	.75 .65
<b>SARAH BERNHARDT</b> , dark pink	.....	.45 .40
<b>WALTER FAUX</b> , crimson	.....	.55 .50
<b>JAPANESE PEONIES</b>		
<b>ANTWERPEN</b> , carmine-pink, im- mense flower	.....	.65 .60
<b>ECSTASY</b> , satiny pink	.....	.65 .60
<b>EVA</b> , brilliant pink	.....	.55 .50
<b>GOLD MINE</b> , dark pink	.....	.65 .60
<b>MRS. F. HEMERIK</b> , enormous pink	.....	.65 .60
<b>SOSHI</b> , dark red, good cut flower	.....	.65 .60
<b>SINGLE PEONIES</b>		
<b>L'ETINCELANTE</b> , brilliant car- mine	.....	.50 .45
<b>ROS. DAWN</b> , immense flower tinted pink, fading to pure white	.....	.65 .60
<b>THE COTTAGE GARDENS</b>		
Nick I. W. Kreik Harold E. Hicks 2707 W. St. Joseph St. Lansing 17, Mich. Phones IV 2-9021 or 2-9276		

**PEONIES**  
 Strong 3 to 5-eye divisions, from young plants. Packing free for cash with order, otherwise at cost.  
 25 or more of a variety takes 100 rate.  
 Each, 10 100

<b>Baroness Schroeder</b> , flesh to white, bomb type	.....	\$0.45 \$0.40
<b>Canari</b> , sulphur-white	.....	.35 .28
<b>Duc de Cazes</b> , carmine-red, rose center	.....	.35 .30
<b>Duchesse de Nemours</b> , ivory-white	.....	.40 .35
<b>Duchesse d'Orleans</b> , soft pink	.....	.35 .25
<b>Duke of Wellington</b> , pure white	.....	.40 .35
<b>Edulis Superba</b> , excellent deep pink	.....	.35 .28
<b>Felix Crousse</b> , ruby-red	.....	.40 .35
<b>Festiva Maxima</b> , white, center flecked red	.....	.40 .35
<b>Francis Orleans</b> , crimson	.....	.40 .30
<b>Karl Rosenfeld</b> , velvety dark crimson	.....	.45 .40
<b>La Perle</b> , light old rose pink	.....	.40 .35
<b>Lillian Wild</b> , very large flesh to white	.....	.60 .50
<b>Mme. de Verneville</b> , very fragrant white	.....	.40 .35
<b>Mary Brand</b> , dark clear crimson	.....	.70 .60
<b>Officinalis rubra</b> , very early, vivid crimson	.....	.70 .60
<b>Ozark Beauty</b> , late radiant pink	.....	.40 .30
<b>Philippe Rivoire</b> , dark crimson, black sheen	.....	1.00 .90
<b>Queen Emma</b> , large satiny pink	.....	.35 .30
<b>Red Rocket</b> , bright deep red	.....	.45 .40
<b>Richard Carvel</b> , early brilliant crimson	.....	.50 .75
<b>Sarah Bernhardt</b> , appleblossom- pink	.....	.50 .40
<b>Venus</b> , lavender hydrangea-pink	.....	.40 .35

**PEONIES, TO COLOR AND MIXED**  
 Pink Peonies, to color, not named ..... 30 .25  
 Red Peonies, to color, not named ..... 30 .25  
 White Peonies, to color, not named ..... 30 .25  
 Mixed Peonies, crown mixed ..... 25 .20

**SINGLE PEONIES**  
 Crinkled White, well known ruf-  
fled white ..... 1.75 1.60  
 Single Red, early medium red ..... 45 .40  
 Send for our Peony Iris, Day Lily list.  
**SARCOXIE NURSERIES PEONY FIELDS**  
 Wild Bros. Nursery Co. Sarcoxie, Mo.  
 Phone 43

**PEONIES**  
 Adolphe Rousseau, Baroness Schroeder,  
 Duchesse de Nemours, Festiva Maxima, Sar-  
 ah Bernhardt, La Perle, Marie Lemoine,  
 Mons. Jules Elie, Reine Hortense.  
 3-yr.-old whole clumps, not divided, 6  
 eyes and up, \$75.00 per 100, \$700.00 per 1000;  
 divisions, 3 to 5 eyes, \$40.00 per 100, \$350.00  
 per 1000.  
**VERKADE'S NURSERIES, WAYNE, N. J.**

## AUGUST

TREE  
CUT  
ATHA

Strom  
Finest  
BETTY  
BIG JIM  
BONFIR  
BUCKLE  
Curtis  
CARNIV  
upper  
CHEER  
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Route 3

TREE AND FERN-LEAVED PEONIES  
CUT FLOWER PEONIES, FREE LIST.  
ATHA GARDENS, WEST LIBERTY 6, O.

## POPPIES

### ORIENTAL POPPIES

Strong field-grown roots, true to name.	
Finest we have ever grown.	10 100
BETTY ANN, soft pink; less spots.	\$2.50 \$20
BIG JIM, outstanding oxblood-red.	3.00 25
BONFIRE, fire-red. New Curtis.	4.00 35
BUCKEYE RED, med. red. New	
Curtis.	4.50 40
CARMEN, dk. cardinal-red. New.	4.50 40
CARNIVAL, lower part creamy white,	
upper half nasturtium-red.	4.00 35
CHEERIO, bluish-pink, red spots.	3.50 30
CRIMSON POMPOON, double blood-	
red.	3.00 30
CURTIS GIANT FLAME, flame-red.	3.00 25
FIELD MARSHAL VON DER	
GLOTZ, white; black spots in base.	3.50 30
GLOWING EMBERS, crimson-red.	2.50 20
GLOWING PURPLE, luminous	
purple.	4.50 40
GLOWING ROSE, glowing rose-pink.	3.50 30
GOLDEN PROMISE, golden Poppy	
from Curtis.	5.00 45
HELEN ELIZABETH, soft pink;	
heavily crinkled.	2.50 20
HENRY CAYEUX IMP., lavender.	3.00 25
JOHN III, coral-pink; no spots.	3.00 25
MANDARIN, rich Chinese-red.	3.00 25
MARY JANE MILLER, salmon-pink	3.00 25
MAY CURTIS, watermelon-rose;	
finest Poppy to date.	5.00 45
MRS. PERRY, light geranium-pink.	2.50 20
PINK LASSIE, large salmon-pink.	3.00 25
RED FLAME, fiery scarlet-red.	3.00 25
RIDGEWOOD BEAUTY, bright	
geranium-pink.	2.50 20
ROSE BEAUTY (Cerule Beauty),	
distinct cerise-pink.	2.50 20
SALMON GLOW, dbl. sal.-orange.	2.50 20
SASS PINK, delicate flesh-pink.	2.00 25
SNOW QUEEN, white; black spots.	4.00 35
SOUVENIR, bright orange; low.	6.00
TANGERINE, bright orange.	3.00 25
PINE MIXTURE, our selection.	2.50 20
May we substitute similar color if sold out	
of the variety you select.	
FLOR-ACRES, BRIDGMAN, MICH.	

### POPPIES

Please check our list on page 43 for the latest and best varieties. Write for our complete list of popular plant material.  
THE JOSEPH F. MARTIN CO., INC.  
P. O. Box 189 Painesville, O.

## PRIVET

Thousands of Amur River North Privet.	
Per 100 Per 1000	
18 to 24 ins.	\$3.00 \$25.00
2 to 3 ft.	4.00 30.00
3 to 4 ft.	5.00 40.00
Immediate shipment. Satisfaction guaranteed.	
Robinson Nursery Co., Greenville, Ga.	

## RHODODENDRONS

### FIFTY THOUSAND OWN-ROOT RHODODENDRONS

A wide range of hardy varieties in 1, 2 and 3-yr. plants. Come and see for yourself to compare quality and prices, or just come and talk Rhododendrons. If you prefer,

WELLS NURSERY  
P. O. Box 141 Red Bank, N. J.  
Phone SHadyside 1-0180

### RHODODENDRONS HYBRID RHODODENDRONS

Landscape sizes.

Different colors.

PARMENTIER'S ROSES  
Grady St. Bayport, L. I., N. Y.  
Phone Bayport 8-0811

### RHODODENDRON MAXIMUM

Nursery-grown and collected, 2 to 7 ft. high. Well-shaped and symmetrical plants.  
CURTIS NURSERIES, INC.  
Callicoon, N. Y.

## ROSE STOCK

### MULTIFLORA ROSE

Top quality plants for living fences and conservation plantings.

Root-crown caliper	Approximate height	Per 1000
2 to 3 mm.	8 to 15 ins.	\$12.50
3 to 5 mm.	12 to 18 ins.	17.50
5 to 8 mm.	12 to 24 ins.	22.50
8 to 12 mm.	18 to 36 ins.	38.50

UNDERSTOCK. Straight shanked seedlings grown especially for understock. Nematode free. Expertly graded to suit the most particular.

4 to 6 mm. \$27.50 per 1000

2 to 4 mm. 17.50 per 1000

The above prices are F.O.B. Griggsville, Ill. nursery. All tops cut back to 10 ins. at shipping unless otherwise requested. Our storage facilities are the best. ORDER NOW for delivery this spring. 10 per cent discount on lots of 10,000 or over; special quotations on larger quantities. For less than 1000 add 20 per cent. Packing at cost.

FARM LANDSCAPE CO.  
Route 3 Urbana, Ill.

## ROSEBUSHES

### FIELD-GROWN ROSEBUSHES

#### FINEST QUALITY.

Hybrid Teas, floribundas, polyanthas and climbers.  
Price and variety list on request.

WELLS BROS. NURSERY  
Box 625 Phone 12F4W Lindale, Tex.

## SEEDS

### SEEDS WANTED

Prunus davidiana or any other hardy Peach, such as Bailey, genuine Manchurian or Siberian Apricots, Prunus avium, prefer from trees indexed for virus. Blue Spruce from select trees. Mahaleb Cherry, Pears.

### SEEDS FOR SALE

Will gather local Montana seeds if there is a crop. Expect to gather hardy Crabs, American wild Plums, Amelanchier alnifolia, Mahonia repens, Cornus stolonifera, Arctostaphylos uva-ursi, Crataegus douglasii (large, tall growing), Crataegus Columiana (late white blooms, abundant red berries persist into winter), Taxus brevifolia (from wild specimens that stand 40 degrees below or more), Douglas Fir and other conifers. Thuja plicata, Tsuga mertensiana (hardy strain), Abies grandis, Picea engelmannii, Lodgepole Pine, wild Rose, etc. All seeds are fresh. No carry-over.

DAVID A. LAWYER & SONS  
Plains, Mont.

### WALKING STICK PALM

We are happy to announce that we are able to offer for the first time, seed of the famous WALKING STICK PALM (Linosyris monostachya), native only to the Macpherson Ranges, Queensland.

\$30.00 per 1000 fresh, virile seeds.  
Also seed of Brassia actinophylla, \$18.00 per lb.

BRUNSTON NURSERY  
Box 61 Mullumbimby, N.S.W., Australia

### NANDINA DOMESTICA SEED

This year's crop of dry, fertile seed, picked from our fields of beautiful red berrying plants, \$2.00 per lb. Add 20c per lb. for postage.

### TERMS: CASH.

PINKSTON NURSERIES  
Parrott, Ga.

## SHRUBS AND TREES

### HEAVY, SHEARED STOCK

We have the following first-class, heavy, sheared stock for fall 1959 and spring 1960, wholesale. These prices apply at the 25 or more rate.

Colo. Blue Spruce, 2 to 2½ ft.	\$ 4.50
2½ to 3 ft.	5.50
Colo. Green Spruce, 2 to 2½ ft.	3.50
2½ to 3 ft.	4.00
3 to 3½ ft.	4.50
Globe Arborvitae, 15 to 18 ins.	2.25
18 to 24 ins.	2.75
Greek Juniper, 2½ to 3 ft.	3.50
Hemlocks, 5 to 6 ft.	10.00
6 to 7 ft.	15.00
Ilex, bullata, convexa, from seed; roundifolia,	
18 to 24 ins.	3.50
24 to 30 ins.	4.50
30 to 36 ins.	5.50
Ilex glabra, 18 to 24 ins.	3.00
24 to 30 ins.	4.00
Ilex hetzi, 18 to 24 ins.	3.50
24 to 30 ins.	4.50
Juniperus hetzi, 18 to 24 ins.	3.00
24 to 30 ins.	3.50
Juniperus pfitzeriana, 2 to 2½ ft.	2.50
2½ to 3 ft.	4.50
Taxus capitata, 2 to 2½ ft.	6.50
2½ to 3 ft.	7.50
Taxus hicksii, 24 to 30 ins.	5.50
30 to 36 ins.	7.50
Taxus, spreading, 18 to 24 ins.	4.00
24 to 30 ins.	5.50
2½ to 3 ft.	7.00
Hybrid Lilacs, B&B, 3 to 4 ft.	2.50
Pink Dogwood, B&B, 3 to 4 ft.	5.00
4 to 5 ft.	6.50

SHANER'S NURSERY  
R. D. 1 New Kensington, Pa.

### ORNAMENTAL TREES

Crab Apples, 40 varieties; 1-yr. trees and limited number 4-yr. transplants. Descriptive booklet available.

Thunder Cloud Plum, purple-leaved; 1-yr. and 4-yr., 8 ft. up.

Winter King Hawthorn, fruits ornamental all winter; 1-yr. whips.

American Holly, hardy named varieties, in sizes to 6 ft.

Taxus and large plants of Magnolia soulangiana.

SIMPSON ORCHARD CO., INC.  
1504 Wheatland Rd. Vincennes, Ind.

Phone 489-3

### RARE SHADE TREE LINERS

Increase your sales with our quality flowering, shade, shrubs, fruit tree liners. Reasonable prices. Send want list.

GLOBE NURSERIES  
Box 249 McMinnville, Tenn.

Finest quality stock: Flowering trees, Cherry, Plum, Peach, Crab, Fruit trees, Red Delicious, Red Rome, Gravenstein, Dark Red Jonathan, Bartlett Pear. Rosebushes, non-patented; wonderful root system. Shade trees, Faassen's Black and Norway Maples, White Birch and others. Deciduous, Cydonia Jap. Rubra, Weigela rosea. Write for prices.  
Canby Nursery, H. J. Mickelsen, H. 3, Box 337, Canby, Ore.

### NURSERY STOCK

TAXUS, RHODODENDRONS, JAPANESE MAPLE, AZALEAS, HOLLIES, MAGNOLIAS, DOGWOODS and other choice foundation planting stock in both finished and lining-out grades. Catalog upon request. Buy the best. "BUY KLYN'S."

GERARD K. KLYN, INC., MENTOR, O.  
Wholesale Rose Growers and Nurserymen  
IN THE HEART OF FAMOUS LAKE CO.

Quercus rubra (Red Oak), root-pruned, field specimens, 2 to 4-in. caliper.  
R. H. Rogers Nursery, Cooperstown, N. Y.

## TAXUS

### TAXUS CAPITATA (Upright Japanese Yew.)

	Per 100 Per 1000
*15,000 2-yr. selected seedlings.	
4 to 6 ins.	\$0.15 \$0.12½
15,000 4-yr. T. 10 to 15 ins.	.45 .40
1,000 6-yr. TT	.75 .50
*Seed sown lightly. Plants grown with plenty of room in beds.	

### C. HOOGEENDOORN

Turner Rd. Newport, R. I.

### TAXUS, HEAVY ROOTED CUTTINGS

	Each, 100 1000
Brown, 8 to 10 ins.	\$8.50 \$80.00
Dunewell, 8 to 10 ins.	8.50 80.00
Intermedia (Seban), 8 to 10 ins.	8.50 80.00
Intermedia, 8 to 10 ins.	8.50 80.00
KUNDTZ GREENHOUSE & NURSERY	
2077 W. Jackson St. Painesville, O.	

### 3000 TAXUS

Intermedia, brown, hatfield and kelmey, in 18, 24 and 30 ins.; 2-yr., 4-yr. liners. See them and compare quality prices.

J. P. SLEESMAN, R. 6, WOOSTER, O.

### Start Your Offer Now

In the American Nurseryman and Watch Sales Clim.

## VIBURNUMS

### VIBURNUM CARLESI

(Fragrant Mayflower Viburnum)

	Per 100 Per 1000
5,000 2-yr. seedlings.	
4 to 6 ins.	\$0.15 \$0.12½
6 to 8 ins.	.20 .17½
8 to 12 ins.	.30 .25
*1000 3-yr. T. 12 to 18 ins.	.75 .60
*Heavy, well-branched, suitable for mail order trade.	

### C. HOOGEENDOORN

Turner Rd. Newport, R. I.

### VIBURNUM CARLESI COMPACTA (NEW)

This is a compact form of Viburnum carlesi with dark green leaves and buds up very readily.

2500 2-yr. grafts \$1.25 \$1.00

C. HOOGEENDOORN  
Turner Rd. Newport, R. I.

## VINCAS

### VINCA MINOR (HARDY MYRTLE)

	Per 100 Per 1000
Division liners	\$ 1.25 \$ 10.00
Clumps, 15 to 20 leads.	5.00 40.00
Clumps, 25 to 30 leads.	7.50 60.00
2½-in. pots	12.00 100.00
3-in. peat pots	15.00 125.00
Shipment any time. Write for quotations on large quantities.	

LOWELL H. MCGEE NURSERIES  
Box 341 Phone 3351 McMinnville, Tenn.

Watch Your Results from  
American Nurseryman Classified Ads.

## MISCELLANEOUS

### MISCELLANEOUS STOCK

6 acres of first-class nursery stock to be sold; removed by purchaser. Location, suburb of Chicago. Owner wishes to cut down business activity. Can be removed bare-root and B&B. Will give 2 to 3 seasons to remove. Inspection invited.

PLANT SALES NURSERY  
19 W. Chicago Ave. Hinsdale, Ill.  
Phone FAculity 3-3808.

## WANTED

### SURPLUS NURSERY STOCK

for distribution to chain store accounts in the East and Midwest. Send us your list of surplus stock with price listings for volume shipments. Call us for immediate action.

ARTHUR GAKLIS  
181 South Ave. Weston 93, Mass.  
Phone TWinbrook 4-5474



# SUPPLIES AND SUNDRIES

## BURLAP

HOLLAND BURLAP squares, for all needs. VIKING CLOTH, a flim imbedded Burlap, in squares, used instead of tarpots, and in 50-yard rolls, 6 ft. wide, \$38.00.  
HALF MOON CO., Box 27A, Plainfield, N. J.

## CANE STAKES

### BAMBOO CANE STAKES

For greenhouse and nursery purposes. All types and sizes.

Write for prices and quantity discounts.

ALEC HENDERSON, INC.  
1313 W. Randolph St. Chicago 7, Ill.

### OUTDOOR BAMBOO STAKES

All sizes for immediate delivery.

Ask for our Nursery Supply List.  
HALF MOON CO., Box 27A, Plainfield, N. J.

## CANE STAKES

SEE DISPLAY AD ON PAGE 87.  
McHUTCHISON & CO., RIDGEFIELD, N. J.

Watch Your Results From  
American Nurseryman Classified Ads.

## CHRISTMAS TREES

15,000 large, sheared Scotch and Red Pine, near Uniontown; 20,000 sheared Scotch and Red Pine, also White Spruce, near Bedford. First cuttings.

L. R. Brown, Agent, R. 4, Johnstown, Pa.

## COLOR TAGS

Quick shipments. Reasonably priced. Shrubs, shade, fruits, vines, flowering trees, etc. Write for price list.

GLOBE NURSERY  
Box 249 McMinnville, Tenn.

Start Your Offer Now  
in the American Nurseryman  
and Watch Sales Climb.

## CONTAINERS

### EGG CANS

By case or truckloads. Carloads, unpainted, unpunched, 8c to 10c at source; freight to be added. Approximately 7000 per carload.

Also available at Scottsville at these prices: Unpainted, unpunched, 17c; painted and punched, 22c.

Approximately 2000 per truckload. Prices subject to market changes.

All prices NET CASH.  
VERHALEN NURSERY CO.  
Scottsville, Tex.

Surplus Stock  
can be easily and quickly turned into  
Cash  
by listing it in the  
American Nurseryman Classified Ads.

## FLATS

### WHITE CEDAR FLATS

Order	No.	Size I.S.M.	Price per Wt. per
By No.	1	14x20x2 1/2-in.	100
No. 1	14x20x3 1/2-in.	327.00	320
No. 2	14x20x3 1/2-in.	31.50	400
No. 3	12x16x2 1/2-in.	20.75	260
No. 4	12x16x3 1/2-in.	24.50	275
No. 5	14x16x3 1/2-in.	23.25	275
No. 6	14x16x3 1/2-in.	27.50	290
No. 7	15x22 1/2 x 2 1/2-in.	30.75	380
No. 8	15x22 1/2 x 3 1/2-in.	35.50	425
No. 9	11 1/4 x 22 1/2 x 3 1/2-in.	25.00	320
No. 10	11 1/4 x 22 1/2 x 3 1/2-in.	29.00	400
No. 11	14x16x5-in.	32.75	450
No. 12	5x11x5-in.	16.75	160
No. 13	5x16x5-in.	19.00	215
Plant boxes	5x8 1/2 x 2 1/2-in.	5.50	45

Skeleton flats to carry TEKPAKS and similar growing containers. (Write us for price list.)

All other sizes quoted on request.  
5 per cent discount on orders of 1000 or more; 10 per cent discount on carloads of 30,000 lbs. or more.

Bottoms and sides are 1/2-in. thick and ends are 3/4-in. thick. All material surfaced on one side.

Your name and address printed, up to 3 lines in black ink, on one or both end pieces at the following rates: \$1.00 setup charge, plus 1/4c per end piece for the first 1000 ends; 1/8c per end thereafter.

Shipped knocked-down in units of 25. F.O.B. Cook. All shipments by truck unless otherwise specified. Attach check.

H. C. HILL & SONS  
Manufacturer of flats, dowels  
and specialties.

Phone North 6-3348, Cook, Minn.

## CYPRESS FLATS.

### TOP-GRADE FLATS THAT LAST.

No.	Size I.S.M.	Per 100 Wt.
1.	14x20x2 1/2-in.	\$25.00 590
2.	14x20x3 1/2-in.	29.00 680
3.	12x16x2 1/2-in.	20.00 440
4.	12x16x3 1/2-in.	24.00 530
5.	14x16x2 1/2-in.	22.00 510
6.	14x16x3 1/2-in.	26.00 590
7.	15x22 1/2 x 2 1/2-in.	29.00 670
8.	15x22 1/2 x 3 1/2-in.	33.00 780
9.	11 1/4 x 22 1/2 x 2 1/2-in.	23.00 540
10.	11 1/4 x 22 1/2 x 3 1/2-in.	28.00 620
11.	14x16x5-in.	30.00 720
12.	5x11x5-in.	16.00 300
13.	5x16x5-in.	18.00 380

Any size to order. Write for price list on skeleton flats. Bottoms and sides 1/2-in. thick; ends 3/4-in.; all planed one side. 5 per cent discount on orders of 500 or more.

Check with order. Up to 3 lines printing in black ink if desired; \$1.00 setup charge plus 1c per end piece. Shipped K.D. in bundles of 25. F.O.B. Williamston, by truck, unless specified otherwise.

H. C. HILL & SONS  
P. O. Box 747 Williamston, N. C.  
Phone Swift 2-4127

## REDWOOD FLATS, K.D.

Finest stock obtainable. Guaranteed all clear heart. Size 20x15x3 in. inside measure, \$38.00 per 100.

1x1-in. Cypress stakes, pointed.  
55 pcs. to bundle, 4 ft., \$3.50 per bbl.

50 pcs. to bundle, 5 ft., \$4.50 per bbl.

50 pcs. to bundle, 6 ft., \$5.50 per bbl.

Ship same day. Cash with order, please.  
YOH & HOOKER, YOUNGSTOWN 2, O.

More customers for you!  
Over 9,500 subscribers, all active buyers, see your ad in the American Nurseryman.

## FERTILIZERS

PETERS SPECIAL  
CONTAINER-GROWING FERTILIZERS  
All materials listed are ideal for container-growing purposes.

SEQUESTERED SOLUBLE  
CHELATED FERTILIZERS  
WITH M77

SOLUBLE FERTILIZERS

21-7-7 Azalea Neutral (non-acidic forming)

2-7-7 Azalea Acid (heavy acidifying action)

20-10-15 Nurserymen's Special

All above, \$6.75 per 25-lb. bag.

\$23.00 for 4 25-lb. bags.

20-20-20 General Purpose Feed.

10-20-20 Low Nitrogen Special.

\$7.25 per 25-lb. bag, \$25.00 for 4 25-lb. bags.

LONG-LEAF FEEDS

13-6-6 Organic Special Du Pont Uramite

Nitrogen and highest grade natural or

organics. The finest long-life dry feed. Un-

excelled for containers.

\$7.25 per 25-lb. bag, \$25.00 for 4 25-lb. bags.

Du Pont Uramite, 25 per cent nitrogen from

methyl-urea, \$12.00 per 50-lb. bag.

Also available: Chelated Iron, Chelated

Trace Element Complexes, Fritted Trace

Elements, etc.

FRTTED POTASH

Contains 32 per cent K2O, plus fritted trace

elements. Will not leach away. Gives 6 to 9

months' assured supply of Potash, regardless

of leaching rain or heavy watering. \$9.00

per 25-lb. bag; \$8.00 per 25-lb. bag for 4 to

39 bags.

Write for complete price list.

Freight prepaid to any state in the Union

with the exception of Alaska, on all orders

totaling 300 lbs. or more. West of the Mis-

issippi, add 2c per lb. on 300 lbs. and over,

prepaid shipments. F.O.B. Allentown, Pa.,

on all orders less than 300 lbs.

PETERS SPECIAL

Retail Packages

20-20-20.

1-lb. resale container,

packed 6 to a carton.

Resale price, \$1.25 to \$1.50.

12-pack carton costs you \$10.50.

20-20-20.

5-lb. resale tub,

packed 6 to a carton.

Resale price, \$3.75 to \$4.95.

6-pack carton costs you \$15.75.

F.O.B. Allentown, Pa. Total orders of 300

lbs. or over shipped prepaid anywhere in the

United States, with the exception of Alaska.

ROBERT B. PETERS CO., INC.

323 N. 15th St. Allentown, Pa.

## IRRIGATION EQUIPMENT

IRRIGATION EQUIPMENT  
Buy direct from factory. New or used  
pumps, aluminum or steel irrigation pipe,  
fittings, irrigation well service. Moulton  
Eagle boom sprinkler, 3 sizes. Write for  
free catalog.

MOULTON IRRIGATION CO.  
Dept. AN9 Withrow, Minn.

## LABELS

### DAHIA OR TREE LABELS

	Plain	Painted
3 1/2 x 1/2 ins., notched, not wired.	\$3.00	\$3.00
3 1/2 x 1/2 ins., wired (copper).	3.95	4.90
4x4 ins. (cartons 1000 each).	3.95	4.40
5x4 ins. (cartons 1000 each).	4.30	5.10
6x4 ins. (cartons 1000 each).	4.70	5.50

Priced per carton

Plain Painted

3 1/2 x 1/2 ins., notched, not wired.

3 1/2 x 1/2 ins., wired (copper).

4x4 ins. (cartons 1000 each).

5x4 ins. (cartons 1000 each).

6x4 ins. (cartons 1000 each).

Priced per carton

Plain Painted

3 1/2 x 1/2 ins., notched, not wired.

3 1/2 x 1/2 ins., wired (copper).

4x4 ins. (cartons 1000 each).

5x4 ins. (cartons 1000 each).

6x4 ins. (cartons 1000 each).

GARDEN STAKES

8x 1/2 ins. (cartons 250 each).

10x 1/2 ins. (cartons 250 each).

12x1 1/2 ins. (cartons 100 each).

Our labels are perfectly white and smooth

on both sides and are pronounced by growers

the best and most economical.

Catalog on request.

"We ship same day."

YOH & HOOKER, YOUNGSTOWN 2, O.

FINEST BLANK OR PRINTED wood labels

BENJ. CHASE CO., VII. Sta., DERRY, N. H.

## ORCHID SUPPLIES

ORCHID FERTILIZERS WATER SOLUBLE  
Use regularly on all Orchids when in  
active growth.

ORCHID SPOONIT

Containing .1 chelated iron.

1 lb., \$1.25; 2 1/2 lbs., \$2.50; 10 lbs., \$8.00.

GAVIOTA ORCHID FERTILIZER

Especially compounded for Orchids.

1 lb., \$1.25; 2 1/2 lbs., \$2.50.

3-1-2 ORCHID FERTILIZER

Instantly available organic nitrogen.

1 lb., \$1.00; 2 1/2 lbs., \$2.50.

WILSON'S ORCHID 20-20-20 FERTILIZER

2 lbs., \$4.85. For use on all Orchids.

F.O.B.

WRIGHTWOOD FLORAL CO., INC.

1420 Wrightwood Ave. Houston 9, Tex.

9,500 Active Nurserymen

are in need of stock.

List your offerings in the

American Nurseryman Classified Section.

## PEAT MOSS

"BRODLEAF" Holland Peat Moss. Carlots.  
Standard 7 1/2 cft. Gardener 6 cft. and Halves.  
Jumbo for growers, two bales equal three.  
HALF MOON CO., Box 27A, Plainfield, N. J.

## PESTICIDES

PESTICIDES  
SEE DISPLAY AD ON PAGE 87.  
McHUTCHISON & CO., RIDGEFIELD, N. J.

## PLANT FOOD

PENNSYLVANIA DISTRIBUTOR  
CHLOROMONE

Liquid plant hormone with chlorophyll.

4-oz. jar ..... \$ 3.00

Case of 12 ..... 23.40

Case of 24 ..... 43.20

Gallon tin ..... 45.00

HEASLEY BROS. NURSERY

R. D. 1, Box 218 Greensburg, Pa.

OHIO DISTRIBUTOR

CHLOROMONE

Liquid plant hormone with chlorophyll.

4-oz. jar ..... \$ 3.00

Case of 12 ..... 23.40

Case of 24 ..... 43.20

Gallon tin ..... 45.00

CRUMRINE NURSERY

13577 Iowa Ave., N. E. Alliance, O.

CHLOROMONE

Liquid plant hormone.

4-oz. jar ..... \$ 3.00

Case of 12 ..... 23.40

Case of 24 ..... 43.20

Gallon tin ..... 45.00

HESS' NURSERY

P. O. Box 128 Wayne, N. J.

## PLANT TIES

PLANT TIES  
SEE DISPLAY AD ON PAGE 87.  
McHUTCHISON & CO., RIDGEFIELD, N. J.

Classified Ads Offer Maximum  
Results at Minimum Cost.

## PLASTIC FILM

VIKING-CLOTH, a Poly-embedded Burlap.  
POLLY-FILM, all in Sheet and Rolls.  
HALF MOON CO., Box 27A, Plainfield, N. J.

# GER-PAK POLYETHYLENE FILM

## SUN-RESISTANT BLACK FOR MULCHING

### .0015 MIL.

3 ft. x 500 ft. .... \$ 7.45 roll  
3 ft. x 1000 ft. .... 14.90 roll  
4 ft. x 1000 ft. .... 19.90 roll

# NATURAL TRANSPARENT ONLY

## .002 MIL. ALL ROLLS 200 FT. LONG

4 ft. x 2 ins. x 200 ft. .... \$ 5.55 roll  
4 ft. x 4 ins. x 200 ft. .... 11.10 roll  
12 ft. x 200 ft. .... 15.90 roll

# NATURAL TRANSPARENT ONLY

## .004 MIL. ALL ROLLS 100 FT. LONG

3 ft. x 100 ft. .... \$ 4.00 roll  
4 ft. x 100 ft. .... 5.30 roll  
6 ft. x 100 ft. .... 7.98 roll

8 ft. x 100 ft. .... 10.65 roll  
14 ft. x 100 ft. .... 18.60 roll  
MINIMUM ORDER .004 mil. 4 rolls up to

5 ft. Write for low prices on quantity orders. Other sizes and mil. weights available up to 40 ft. in natural and black film.

PHONE BALDWIN 3-8277  
DAYTON NURSERY & GARDEN SALES  
P. O. Box 763 Dayton 1, O.

# POLYETHYLENE FILM

## 1 1/2 mil., black, in 1000-ft. rolls, 3 ft. wide.

\$30.40; 4 ft. wide, \$27.00.  
2 mil., natural, in 200-ft. rolls, 4 ft. 2 ins. wide, \$8.00; 8 ft. 4 ins. wide, \$15.00; 12 ft. wide, \$21.60.

4 mil., natural, in 100-ft. rolls, 3 ft. wide, \$6.00; 4 ft. wide, \$8.00; 6 ft. wide, \$11.20; 8 ft. wide, \$14.40; 10 ft. wide, \$18.00; 12 ft. wide, \$21.60; 14 ft. wide, \$25.20; 16 ft. wide, \$28.80; 20 ft. wide, \$36.00; 24 ft. wide, \$43.20; 32 ft. wide, \$50.40; 36 ft. wide, \$57.60.

10 per cent discount on orders over \$24.00.  
20 per cent discount on orders over \$60.00.  
35 per cent discount on orders over \$60.00.

We pay freight if check is with order.  
6 mil. available in widths up to 32 ft.

ROUGH BROS.  
4259 Spring Grove Ave. Cincinnati 23, O.

# POLYETHYLENE FILM

## Natural transparent, made from Du Pont Alathon, the amazing film for greenhouses.

.004 mil., all rolls 100 ft. long.  
3 ft. wide by 100 ft. long ..... \$ 6.00 per roll  
4 ft. wide by 100 ft. long ..... 8.00 per roll  
6 ft. wide by 100 ft. long ..... 12.00 per roll  
8 ft. wide by 100 ft. long ..... 16.00 per roll

Other sizes available up to 20 ft. wide.  
Send \$1.00 for liberal sample,  
4 ft. x 10 ft. postpaid.

Special deal for greenhouse construction.  
4 rolls to 3 rolls, 25 per cent discount.  
100 rolls or more, 33 1/3 per cent discount.

"We ship same day."  
YOHO & HOOKER  
620 Williamson Ave. Youngstown 1, O.

Turn Stock into Dollars  
by Listing It in the Classified Ads  
of the American Nurseryman

# PLASTIC POTS

## WILSON HIGH IMPACT

POLYETHYLENE PLASTIC POTS  
Attractive mottled colors in utility grade,  
sold in original cartons only. All priced  
F.O.B. DAYTON, O.

Per 1000 Wt.  
2-in., round, 1000 case ..... \$ 9.00 12 lbs.  
2 1/2-in., round, 1000 case ..... 11.50 22 lbs.  
3-in., round, 1000 case ..... 17.00 35 lbs.  
4-in., round, 500 case ..... 32.00 35 lbs.  
4-in., round tub, 500 case ..... 32.00 33 lbs.  
6-in., round, 120 case ..... 120.00 35 lbs.  
6-in., round tub, 120 case ..... 105.00 25 lbs.  
1 1/2-in. square, 1000 case ..... 16.00 18 lbs.  
4-in. square, 1000 case ..... 32.00 33 lbs.  
6-in. square, 1000 case ..... 32.00 33 lbs.

Also available in solid pastel colors, add 25 per cent to above price for colors. Samples sent upon request.

DAYTON NURSERY & GARDEN SALES  
P. O. Box 763 Dayton 1, O.  
Phone Baldwin 3-8277

# INCREASE PROFITS

## Cut costs, reduce breakage, improve salability! How? Simply use Wilson Plastic Plant Pots. Square and round pots, tubs and flats. Wide range of sizes. Lightweight, durable, low cost. High impact material makes pots unbreakable in normal use. Switch now to modern, money-saving Wilson Plastic Plant Pots. For full samples, write to

WILSON PLASTICS, INC.  
Dept. AN, P. O. Box 2037 Sandusky, O.

Surplus Stock  
can be easily and quickly turned into Cash  
by listing it in the  
American Nurseryman Classified Ads.

# PRINTING

## Billheads, 8 1/2 x 7.

White wove envelopes, 6 1/2 size.  
250 of each for \$6.00, postpaid to zone 3.  
H. Grebe, 396 Union St., Rye, N. Y.

# REED MATS

## REED MATS

SEE DISPLAY AD ON PAGE 87.  
McHUTHCHISON & CO., RIDGEFIELD, N. J.

# RUBBER TUBING

## RUBBER TUBING FOR GUYING WIRES

3/8-in. outside diameter.  
8 to 12 ft. random lengths.  
100 ft., \$2.50.  
500 ft., \$11.00.

F.O.B. Middlefield, O.

## MARKAY NURSERY

Lake St. Middlefield, O.

# SPHAGNUM MOSS

## NO. 1 SPHAGNUM MOSS

Large burlap bales, long fibered, clean, firmly packed; bale, \$1.20.

## JOSEPH JAMROS, CITY POINT, WIS.

Fresh, clean sphagnum moss, write, or phone City Point 133 for our low prices on wirebound bales in truckloads or carlots.

## Tony Jaromir, City Point, Wis.

Long-fibered sphagnum moss, also ground moss. Price us on truckloads delivered.  
Warrens Moss Co., Warrens, Wis.

# STAKES

## CYPRESS PLANT STAKES

50 pieces to bundle.  
1x1-in.—3 ft., pointed ..... \$3.00 per bundle  
1x1-in.—4 ft., pointed ..... 3.50 per bundle  
1x1-in.—5 ft., pointed ..... 4.50 per bundle  
1x1-in.—6 ft., pointed ..... 5.50 per bundle  
1x1-in.—7 ft., pointed ..... 7.00 per bundle

These stakes are made of cypress and redwood; are good, strong stakes and will give long service. "A little better than necessary."

## WE SHIP SAME DAY!

## YOHO & HOOKER

Youngstown 2, O.

## STAKES, GALVANIZED HARD STEEL

## GALVANIZED tree guying WIRE,

## HOSE for guywire PADDING.

Prices and samples sent on request.  
SCHUPP SUPPLY CO., WILMETTE, ILL.

# OREGON NOTES

[Concluded from page 59]

tion will be made at the meeting, and O. A. N. President Robert Snodgrass, Esch Nursery and Seven Dees Nursery, Portland, has called a meeting of the board of directors to be held during the Gearhart get-together. A highlight of the 3-day meeting will be the western beach party, to which all the cowboys and Indians among the nurserymen have been invited. Heading the prize committee is Wayne (Duffy) Arnold, Arnold's Nursery, Milwaukie.

Pat Dering, Peterson & Dering, rose growers, Scappoose, recently returned from a six weeks' sales trip through the midwest. He flew home for the fourth of July and then returned for another six weeks in the midwest and east, during which time he was to attend the A. A. N. convention at Philadelphia.

Mrs. Frank Mackaness was recently honored by the Federation of Oregon Garden Clubs, which presented her with an award for outstanding service in the horticultural field. Mrs. Mackaness is the wife of Frank Mackaness, manager of rural services of the Portland General Electric Co. and a member of the Oregon Association of Nurserymen. Posthumous awards were also given by the federation to William and Fred J. Borsch, whose firm, the William Borsch & Son Nursery, became world-famous for alpine, rock plants and dwarf flowering trees and shrubs.

A full-page article in the Sunday

Oregonian Home and Garden magazine section of June 28 told about Georges' Gardens, Portland, and included recommendation from John Georges, owner, concerning the best way to handle nursery plants in the yard.

In the same issue was an article about the nursery business of Warren Ferris, Newport, who specializes in the growing of Oregon grape, state flower of Oregon.

According to assistant state forester C. D. Maus, two Oregon state forestry department nurseries, located near Corvallis and Elkton, produced 11.3 million forest tree seedlings, which were used to reforest various areas in the state this year. This represents twice the production of the previous year, he said. Heaviest production was of Douglas fir seedlings, some 7.3 million plants.

The Oregon Holly Growers' Association held its annual field trip Saturday, June 20. Members and friends gathered at the establishment of R. M. Bodley, Portland, to take note of the severe damage done to his planting by the starlings. Then they went to Mumpower park, Carver, on the Clackamas river, where they held a business meeting and dinner. On the agenda were discussions concerning shipping problems, the starling bill recently passed by the state legislature and participation in the Oregon Centennial Exposition. In the afternoon the group visited the Brownell Holly Farms orchard nearby. John Inskeep, county agent of Clackamas county, and Ray McNeilan, county agent for Multnomah county, arranged the tour.

Mr. and Mrs. Harold Ritter have taken over the Ruddy Kuhn Nurseries on Highway 99, near Portland.

Riverside Greenhouse, Sheridan, has been reopened by Ray and Sharon Agee. They are carrying a complete line of shrubs, as well as tuberous begonias, fuchsias and other plants.

C. H. P.

# OREGON CHAPTER NEWS

There was plenty of relaxation scheduled for the last meeting of the Sunset chapter of the Oregon Association of Nurserymen, which was held at the Forest Hills Country Club, Cornelius. The main event was a golf tournament held in the afternoon of June 15, preceding the dinner meeting. Low net score was won by W. P. "Pete" Nuffer, Mountain View Nurseries, Gresham; best golfer award for men went to Tom Halverson, Seven Dees Nursery, Portland, and the best golfer award for women went to his wife, Rose-

# WANTED and FOR SALE ADS

Help and Situation Wanted and For Sale Advertisements.

Display: \$4.50 per inch, each insertion.

Lines: 40c line; minimum order \$4.00.

## HELP WANTED

1. **LANDSCAPE FOREMAN** — willing worker, thorough knowledge of landscape field essential. Minimum of 5 years' experience required. Permanent position for responsible man.

2. **EXPERIENCED WORKING MANAGER** — for retail garden center and nursery salesyard. Must be reliable and have selling ability. Thorough knowledge of the nursery business essential. Permanent position for responsible man.

**SUBURBAN NURSERY**  
610 Hempstead Turnpike  
West Hempstead, L. I., N. Y.

## HELP WANTED

### PEAT MOSS SALESMAN

Old reliable firm has territories available in New York, Baltimore and Washington areas. Inquiries strictly confidential. Address replies to Box 617, care of American Nurseryman.

## HELP WANTED

### SALES POSITION OPEN

Medium-size midwestern grower-nurseryman has opening for wholesale salesman. Old, established firm growing a full line of ornamentals. Now concentrating on Great Lakes area, but need more coverage. Salary plus bonuses—no commissions. Send resume to Box 523, care of American Nurseryman.

## HELP WANTED

### ASSISTANT

### GROUNDS SUPERVISOR

Must have supervisory ability and be capable of assuming responsibilities related to the maintenance of grounds. 40-hour week. Paid vacation, sick leave, holidays and pension plan. Apply:

Personnel Office  
**UNIVERSITY OF CHICAGO**  
956 E. 58th St. Chicago, Ill.

## HELP WANTED

**RETAIL NURSERY SALES CAREER**  
Requirements—Ambition and desire to work for advancement in a growing, progressive company.

Mr. Charles Crum  
**ROSEDALE'S NURSERIES, INC.**  
400 W. Huntington Dr. Monrovia, Calif.

## HELP WANTED

Salesmen to call on trade for large midwestern wholesale nursery offering excellent assortment. Good territories available. Liberal commission. Write giving full information about self. Reply to Box 601, care of American Nurseryman.

## FOR SALE

### LANDSCAPE DEPARTMENT

A well-established (26 years) landscape service doing \$34,000 volume per year. In a community of 100,000 people, above average income. Volume can be increased to whatever volume you would like. Community needs a well-qualified and trained person.

Will sell good will, tree mover, trucks, small tools, etc. Everything needed to conduct a going business. Will promote your service to our garden center customers. Price complete \$12,000 — \$3,600 initial payment plus 8 payments of \$1,050 each 6 months. Reason for selling: Doing wholesale greenhouse business and cannot devote interest and time to the landscape field. Contact:

**ERNST, INC.**  
P. O. Box 272 Muncie, Ind.  
Phone: ATlas 2-2233

## FOR SALE

### THE E. J. SNYDER NURSERY IN WEST MILTON, OHIO

Owner retiring. Ideal soil and location, fine residence, greenhouses and necessary buildings, customer list, owner's good will and active assistance. \$13,500 down and easy annual payments.

**E. J. SNYDER**  
West Milton, Ohio

## FOR SALE

Nursery located in Delaware valley, N. J. 14 acres, big frontage on state highway Phila-Shore. Office, showroom, greenhouse, hotbed seed house, plenty of coldframes, packing house, implement shed. Beautiful stone duplex dwelling. Over \$30,000 marketable stock of ornamentals. 2 tractors, truck, plenty of equipment. Established retail and wholesale. Asking \$75,000. Offers considered.

**E. A. PETTIT, INC.**  
706 Cedar Ave. Pitman, N. J.  
Phone: LU 9-3908

## HELP WANTED

Landscape salesman with landscape design experience. \$400 per month drawing account against liberal commission.

**OLD ORCHARD GARDENS**  
724 E. Big Bend Blvd.  
Webster Groves, Mo.

## HELP WANTED

Experienced propagator to work with native plants. Give qualifications, age, experience and education.

Horticultural Department  
**IDA CASON CALLAWAY GARDENS**  
Pine Mountain, Ga.

**HELP WANTED** — Landscape salesman. Needed by reputable nursery. Must be college trained or experienced in landscape selling. Opportunity to work on west coast of Florida where you are limited only by your own abilities. Salary plus commission. Contact: **ROYAL PALM NURSERIES CORP.**, Box 698, Oneco, Fla.

## FOR SALE

Quality nursery with largest stock in Pacific northwest. Been same location 37 years. Beautiful layout with nice buildings on well-located 10-acre site. \$120,000 for land and buildings (stock and equipment extra). Land alone is worth more than total price. Cash or \$30,000 down, balance \$750 per month including interest. Books open to bona fide nursery prospect. A nursery with a past on a property with a future. Call or write:

**WILLIAM C. JOHNSTON, Realtor**  
801 Washington Bldg.  
Tacoma 2, Wash.  
Phone: FULTon 3-4554

## FOR SALE

Clear, complete nursery, enormous stock. On 4-lane highway, in fastest-growing area in the northwest. Sell or trade for clear, good going income property farm-ranch. This is a money-maker. Greenhouses, warehouses, modern house and office. Unlimited amount of water, cheapest electricity in U.S.A. All property zoned for business. Value to \$100,000. Will carry back at 4 per cent. Property suitable for any business. Reply to Box 616, care of American Nurseryman.

## SITUATION WANTED

If you are looking for a conscientious landscape designer-salesman, age 34, with 10 years' sales experience, university graduate in horticulture, to sell high-quality landscaping services to your man. Will locate anywhere that has high sales potential. Available after August 15. Reply to Box 622, care of American Nurseryman.

## SITUATION WANTED

Young nurseryman, trained in book-keeping, managing, propagation and wholesale-retail sales of nursery stock. College experience, married and capable of handling personnel. Age, 23 years. For further information write Box 620, care of American Nurseryman.

## WANTED

Established aggressive firm now contacting leading growers in northeastern part of U. S. wishes to act as distributor for additional items of need to the nurserymen. Write giving full particulars. Address replies to Box 619, care of American Nurseryman.

## BUSINESS OPPORTUNITY

Will finance, bond and equip nurseryman or landscape contractor doing seeding, grading, excavation, planting and other lines, or will start new business with reliable party able to produce work and results. Write Box 618, care of American Nurseryman.

## HELP WANTED

Salesman for agricultural supplies in the New England area. Call on dealers, nurseries, farm trade. 3 years' experience necessary. Age 25 to 35. Reasonable drawing account. Ambitious, hard-working salesman can assure himself high commissions. References required. Reply to Box 621, care of American Nurseryman.

**FOR SALE** — Businesses may be offered for sale by use of a want ad liner such as this. Cost: 40c per line (minimum order \$4.00). Your ad will be seen by more than 9500 American Nurseryman readers.



**WANT ADS**Display: **\$4.50** per inch, each insertion.Lines: **40c** line; Minimum order **\$4.00**.**FOR SALE**

High-clearance nursery tractors, 6-ft. 2-in. clearance. Used for cultivating, spraying, evergreen and citrus tree baling, root pruning, bare-root digging. Write for information.

**NURSERY EQUIPMENT CO.**  
Maple Plain, Minn.

**FOR SALE**

Christmas tree plantation of 40 acres with approximately 50,000 premium Scotch Pine, 4 to 7 ft.

**W. A. SWIFT NURSERY**  
R. D. No. 5 Greenville, Pa.

**FOR SALE**

Used complete greenhouses. Used greenhouse materials, glass, pipe, valves, etc. Greenhouses bought for wrecking.

**SEABOARD GENERAL SUPPLY CO.**  
Elizabeth 4-9041 Waverly 6-0404  
1080 Magnolia Ave. Elizabeth, N. J.

**FOR SALE****NURSERY**

25 miles from Cincinnati, on federal and state highways, residences, greenhouses, garages, sheds and other outbuildings, lakes and a creek; well planted; owner wants to retire. Send replies to Box 594, care of American Nurseryman.

**SITUATION WANTED**

Thinking of a change? Tell potential employers about your abilities by using an ad in this department. The cost to reach the widest readership in the industry is only \$4.50 per inch.

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**FOR SALE** — Nursery in north central state. Has been side line; health and other interests force immediate sale. Wonderful opportunity. Will sacrifice at \$12,500. Concrete building, 1664 sq. ft. Small greenhouse, 14th area, refrigerated storage, neon sign, good tractor, 2 acres on paved U. S. highway, stock included. Reply to Box 613, care of American Nurseryman.

**FOR SALE**—Good-going and profitable retail nursery in New Brunswick-Trenton, N. J., area. 5.7 acres fertile land, fully planted with fine stock of trees, shrubs and plants. Established trade. Good equipment, large storage sales building, plastic greenhouse, garage, fine irrigation pond. Small cottage. All for \$30,000. Terms. Write: **HORTICULTURAL REALTY CO.**, 36-52 Main St., Flushing 54, N. Y.

**FOR SALE**—8 miles from New York city, well stocked with evergreens, mostly taxus. 212 acres, 245-ft. frontage on county road. Sales building and small greenhouse. Few hundred feet from hospital, county home and medical building. All level land, good for florist with the garden shop. Write: **FRANK STEPHAN**, 108 Jewell St., Garfield, N. J. Phone: PRescott 7-8659.

**FOR SALE**—Property and business. 3 acres of land, bungalow, three 100-ft. greenhouses, garage, 24x48 ft. **NESCONSET FLOWER FARM**, St. James, L. I., N. Y.

mary Halverson. At the dinner meeting, Mr. Nuffer showed slides on the canning of nursery stock.

The Rose City chapter of the O. A. N. met jointly with the Landscape Gardeners' Association the evening of June 23 at the Chinese Village, Portland. After dinner, the group heard Mrs. Richardson, of the Oregon Pioneers, tell about the Champoe house, historic house at Champoe, Ore. Eddie Boatright, of the Oregon centennial commission, reported on the progress of plans for the exposition and praised nurserymen and landscape gardeners for their help with the "International Garden of Tomorrow." Scotty Schulman, Scotty's Gift Shop, Portland, showed slides of Ceylon and India, and Jack Marx, director of the Portland zoo, showed slides taken at the time he visited the South Pole to capture penguins for the zoo.

The Columbia River chapter of the O. A. N. met at the Kitchen Kettle, Portland, June 25. Slides of Hawaii were shown, and a report was given concerning the coming Gearhart meeting of some of the chapters in September.

The board of directors of the Willamette chapter of the O. A. N. met recently at the H. L. Percy residence, Salem. Final arrangements for the June picnic meeting were made. The Oregon state fair exhibit was discussed, as was the Gearhart meeting in September. C. H. P.

**CASCADE CHAPTER**

A meeting at the home of Mr. and Mrs. Myron Lehne, M. Lehne Nursery, Roseburg, Ore., was enjoyed by members of the Cascade chapter of the Oregon Association of Nurserymen and guests, June 30. After a picnic dinner President A. M. Cooper, Cooper's Gardens, Canyonville, presided over a short business session. Dr. Garvin Crabtree, Oregon State College, Corvallis, spoke to the group about "Weed Control in Nurseries." Dr. Crabtree said that experiments at the college had been with both pre-emergence and post-emergence weed killers. For a really complete control, soil sterilants should be used, although this is not always possible when nursery stock is already being grown.

Soil tilth has a great deal to do with the success of chemicals used to control weeds. Dr. Crabtree recommended methyl bromide, Vapam and mylone as good sterilization materials. Eptam is a good selective herbicide for post-emergence use. Experiments are being conducted with Eptam as a pre-emergence material. Crag Sesone also is a good material,

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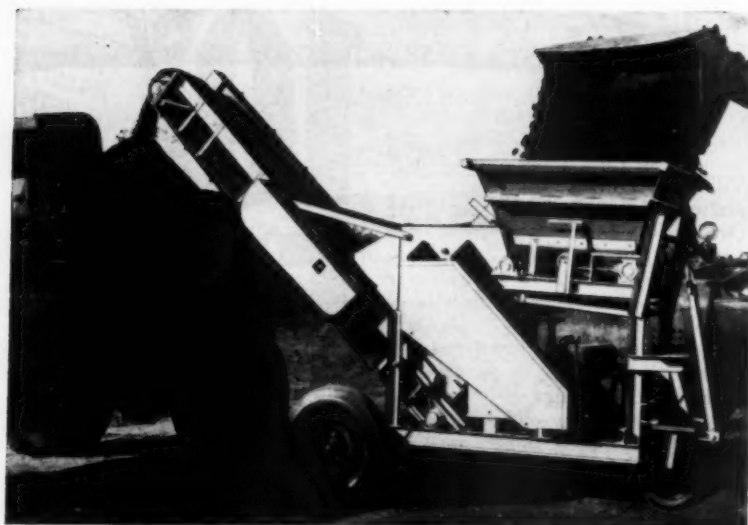
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- ☐ straight carloads — 6 cu. ft. and/or 3 cu. ft. KING SIZE BAGS  
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Here's increased soil shredding production for nurserymen and landscapers. LINDIG introduces the Models L-25 and L-40 Soil Shredders to meet large capacity requirements for operations with front-end bucket loaders.

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Other LINDIG Soil Shredders range from 3 cu. yd. to 100 cu. yd. hourly production rates. The Lindig Line is sold and serviced through a nationwide dealer organization.



1875 WEST COUNTY ROAD C  
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**THE GRAFTER'S HANDBOOK**, by R. J. Garner. Grafting in detail. 2nd ed. (1958). 260 p. **\$5.75.** American Nurseryman, Chicago 4, Ill.

Dutch and Domestic  
**BURLAP**  
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especially effective against young broad-leaved weeds, Dr. Crabtree said. Soil microorganisms activate the material, which must be applied before weeds are up.

Solvent oil, used in a special way as a directed spray, has an immediate effect, he said, and it is non-residual. Two other materials, Simazine and neburon, have a low solubility and tend to stay near the surface. They do not leach downward to any extent. These materials are effective on young seedlings and easy to use around growing plants. Dr. Crabtree mentioned that Dr. R. L. Ticknor is conducting weed control experiments at the new North Willamette valley experiment station. A discussion ensued concerning the build-up of chemicals in the soil and resistance of various weeds to the materials used. Many factors, said Dr. Crabtree, influence the effectiveness of the chemicals used.

J. Roland Parker, Douglas county agent, reminded the nurserymen that many fine bulletins on chemical weed controls are available through the county agents' offices. He commented on the heavy red spider infestation in parts of Oregon this year and named malathion as one of the most effective materials to control the pests. It is far less dangerous, Mr. Parker pointed out, than are parathion and TEPP. He advised against the outdoor use of the latter. For the most economical use of spray materials he advised growers to read product labels carefully, so that they will know exactly what strength of materials they are getting. A comparison of strengths will often show the cheapest brand of material offered to be the most costly.

A third speaker was O. A. N. executive secretary, Charles H. Potter, Milwaukee, who talked about association affairs. C. H. P.

**HONORED** by the Northwest chapter of the Washington State Nurserymen's Association was Hans Jensen, who recently retired from Fir Island Nursery, Mount Vernon, Wash. Mr. Jensen was presented with an honorary membership in the chapter by Fred Dent, Mountain Meadow Nursery, Monroe, president.

**MOVED** to Chicago, Ill., from Ringwood, Ill., was the Panogen Co., a division of Morton Chemical Co. The firm's address is 110 North Wacker drive, Chicago 6, Ill.

**STARTED** recently on Nason Hill road, Sherborn, Mass., were the Sherborn Nurseries.

## Connecticut Summer Meet

By Kenneth Bradley

The Connecticut Nurserymen's Association held its annual summer meeting at Lake Compounce amusement park, Bristol, Conn., July 1. Over 150 persons partook of a roast beef or chicken dinner in the ballroom and later enjoyed the amusement facilities of the park. As customary in recent years, the association sponsored reduced dinner rates for nurserymen's children, as well as \$1 worth of free "ride" tickets.

After registration, members spent the morning enjoying informal social activities, since this day is planned primarily as a get-together for visiting and relaxation. Some enjoyed the swimming facilities.

At a short business meeting after dinner, Vice-president Bruce Vanderbrook, Vanderbrook Nurseries, Inc., Manchester, presided in the absence of President Warren Richards, Clinton Nurseries, Clinton. An application for firm membership was presented and passed for John R. Dart, Dart Tree Farm, Middle Haddam.

### Name Honorary Member

Chairman of the resolutions committee, Edward J. Kelley, Stephen Hoyt's Sons Co., Inc., New Canaan, presented a motion that Ernest Brack, recently retired, Brack's Nursery, New Milford, be voted an honorary life membership in the association, in recognition of his many years of devotion to the profession. The motion was unanimously passed. Mr. Brack, one of the oldest nurserymen in the state, is a native of Switzerland and came to the United States in 1913. For some time he worked in the Philadelphia area, under the French landscape architect, M. Graber, on the Stokesbury and Widener estates. In 1923 Mr. Brack moved to Greenwich, Conn., where he established his own nursery business.

Vice-president Vanderbrook asked for a discussion of proposals to guide the executive committee in appointing a replacement for Secretary Erwin Whitham, who has resigned. Secretary Whitham is carrying on the duties of his office, pending the decision of the executive committee.

One proposal put before the meeting was to appoint an honorary, unsalaried secretary and treasurer, who would attend meetings and carry out

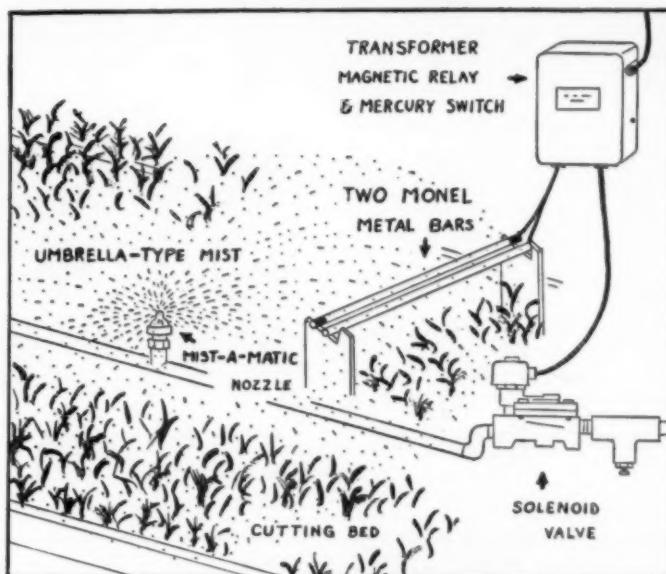
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That Is Priced Right.**



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related activities, and also to employ a professional secretary-treasurer, with a salary, who would carry out general duties such as preparing bulletins, collecting dues and allied work. The last-named position would not necessarily have to be filled by a member of the organization or a nurseryman.

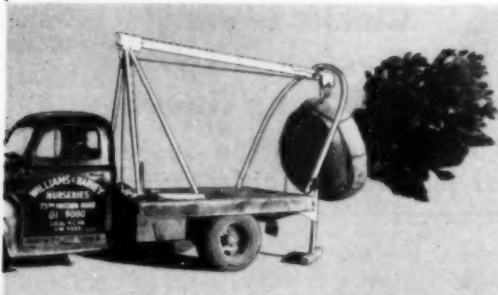
In a discussion of this proposal,

the consensus among the members was that such a professional secretary should be chosen from within the organization.

NAME and location of the Maywood Rose Nursery, Roseburg, Ore., have been changed to John Carrigg & Sons, Jefferson, Ore., 12 miles south of Salem, Ore.



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## DOMESTIC BURLAP SQUARES

In lots of 1000 or more in each size. Per 1000

24x24 ins. .... \$37.50

26x26 ins. .... 41.00

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This should offer considerable savings to large users of domestic squares. All covers are made from vacuum-cleaned, bright burlap bags, free of holes and perfectly uniform. Samples will be gladly mailed upon request.

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## HENRY FIELD CO. SOLD

Elbert A. Read, late president of the Henry Field Seed & Nursery Co., Shenandoah, Ia., announced shortly before his death on June 10 that the firm was being sold to a group of its officers headed by Jack Foster, vice-president in charge of sales. In recent years, all stock of the firm had been held by members of the Read family. Assuming ownership along with Mr. Foster as of August 31 will be two other vice-presidents of the company, George Rose and Irving Steuer, and Rolf Arntal, treasurer.

According to the terms of the agreement, Mr. Read was to have remained as chairman and president of the Henry Field Seed & Nursery Co. until September 1, 1962. In the letter to members of the organization in which he announced the sale, Mr. Read stated that it had been decided upon in order to "insure a continuation of our present management with its proven record of success" and to keep the business at Shenandoah.

A stockholder in the firm since its founding, Mr. Read took over management with John Nicolson in 1935 and became president on the death of Henry Field in 1949. Stock in the company owned by the late Mr. Nicolson was purchased from his estate in 1957. Since that time, all the stock was family owned by Mr. and Mrs. Read and their three daughters, Mrs. Harold Ambler and Mrs. L. K. Richard, Waco, Tex., and Mrs. Donald Wilson, Darien, Conn.

Included in the sale are the mail-order seed and nursery operation and a retail store at Shenandoah. Stores bearing the Field name in other parts of the state are not affected, being privately owned.

## FLORIDA SHORT COURSE

[Continued from page 8]

ferent types of plants are properly labeled and if the traffic is kept flowing in and out of the sales area.

He called attention to the fact that customers do not mind waiting, so long as they know why they have to wait, and are even willing to wait in line if they know that the employees are doing all they can to help. Mr. Hastings recommended the use of contests, clinics, schools and other such projects as a means of creating traffic in a garden center without using sales or price cutting.

Ray Revette, Palmer Nurseries, Osprey, Fla., followed with a discussion of the nurseries' experience, with garden supply stores at Sarasota and Punta Gorda. Mr. Revette also listed site determination as the first

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IN WEST GERMAN BOGS, Nature "put the squeeze on" genuine Sphagnum Moss for centuries. Detorf Bricks are tougher, denser, more resilient and better preserved than peat from any other deposits in the world.

**DETORF'S MODERN PLANTS** actually out-do Nature. Forty-eight Bricks—open-air-dried, shredded and screened—are packed under high compression into each sealed, dust-free, moisture-proof 6 cu. ft. bag.

**TEN FULL BUSHELS FLUFF** out when the Detorf 6 cu. ft. bag or bale is opened. Detorf goes farther—lasts longer because its double volume absorbs 15 to 30 times its weight in water—breaks down slowly in use.

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for you are assured by Detorf's  
liberal margins and customer demand.  
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#### GARDEN SUPPLY SALES CORP.

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#### J-M TRADING CORP.

323 S. Franklin St., Chicago, Ill.

job to be done in setting up a garden center and emphasized Mr. Hasting's statement that a survey of the growth potential and sales potential of the area was of prime importance. Records and experience of power companies and telephone companies are a good index to use for this survey.

#### Direction of Traffic Flow

Mr. Revette called attention to the importance of the layout of the store and suggested that the line of traffic be from the parking lot through the store to the plant display area, through the store again and then back to the parking facilities. He also suggested arranging the traffic flow through the store so that customers going into the plant area would pass through the right-hand side of the store and the returning traffic would pass through the left-hand side of the store.

He recommended that staple products such as fertilizers, sprays, gloves and trowels be placed so as to be seen by the incoming traffic and that the impulse items be placed along the route of the customers leaving a point of sale to return to the parking area.

The walk and aisle arrangement in the store is important. Customers tend to turn to the right on entering

a store, unless the center walk is made much wider than the side aisles, in which case most customers will continue forward. Mr. Revette discussed the following points as a guide for consideration in laying out a garden supply store:

1. Since customers like to handle merchandise, place stock within three feet of an aisle and within easy reach.

2. When displaying cartons of packaged products, remove a few of the packages from the opened carton, so that the customer will not feel that he is the first to buy.

3. Customers are impressed by neatness. Arrange products so that they can be easily cleaned and kept neat.

4. Display related items together, such as spray materials, sprayers and insecticides.

5. Offer a choice of at least two competitive items.

6. Since many people are near-sighted, display within easy reach and so that the customer does not have to reach over high merchandise.

7. Offer free circulars in a neat and convenient display; in wire holders on pegboard, for example.

8. Make a wide use of color—colored paper, paint, colored cello-

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Repair Parts for All Models

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phane—to attract attention and glamorize products.

9. Mark and display prices prominently. Customers are suspicious of items not priced.

10. Arrange display shelves, gondolas and tables so that the customer can see over the entire store. This means all displays between the walks and away from the walls should be less than five and one-half feet high.

#### Display Pointers

Mr. Revette stated that pegboard along the wall is ideal for displaying such garden supply items as hose, tools, baskets and work clothes. He recommended that shelves be only one to one and one-half feet deep and placed 12 to 16 inches

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strikes,  

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more  
profits:  
**ROOTONE**  
the plant  
hormone powder

**USE IT YOURSELF** for a higher percentage of cutting strikes! Rootone is now fortified with *indole butyric acid*, making it more useful than ever . . . the most effective hormone root forming stimulant for rooting the widest range of cuttings! There's a formula and package size for your every need, including Rootone F with fungicide.

**SELL IT** for added volume and extra profits! Rootone is an ideal year 'round resale item to amateur gardeners and house plant enthusiasts. Help your customers get better cutting results with Rootone, today's most trusted hormone root stimulant.



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apart. Unusual items should be displayed at waist to eye height, with complementary items nearby. Items that are to be pushed should be displayed in more than one place throughout the store.

Mr. Revette pointed out that advertising is spending money to buy customers. Advertising, therefore, should be designed to attract attention and to tell a story rather than to list plants and prices. This can be done, he stated, by emphasizing the difference in prices, explaining why the prices are different, creating desire and stimulating immediate action.

Friday afternoon the short course group attended split sessions, one on landscaping and the maintenance of landscape plantings and the other on nursery production.

Dr. E. W. McElwee, department of ornamental horticulture, University of Florida, led off in the nursery production section with a discussion of the fundamentals of nursery production. He stated that the grower needs to decide first what type of growth he wishes to produce—fast, slow, weak, strong, leafy or flowering.

Secondly, the grower should determine the best time and method of controlling each of the factors that has to do with plant growth: Temperature, light, water and nutrition. He explained how these various factors affect the growth of specific types of plants, the problems of controlling the factors, the results that can be expected when they are under control and practical corrective measures applicable to the production of nursery stock in containers and in the open field.

#### Specimen Material

Roy Rood, Rood Landscape Co., Jupiter, Fla., in discussing the production of specimen landscape plants, stated that the growing of specimen plants is one field of horticultural production that is not overdone. Today there is a greater demand for this type of material than ever before, because of the rapid growth of subdivisions throughout Florida and the homeowners' increased interest in landscaping. It is one field, he stated, in which the small nurseryman and landscape man can excel during these days of mass production.

Mr. Rood answered his own question "What is a specimen plant?" by stating that it is any plant or tree that can be used as a center of interest and around which plants or plantings can be developed in patios, pools, planter boxes and outside gar-

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Quantity	Per 1,000 markers
1,000	\$3.90
5,000	3.60
10,000	3.30
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Shipping weight per 1,000 Thriftee Markers: 3 lbs. Quantity prices shown are F.O.B., Milford, Michigan. Shipping charges prepaid if check accompanies order.

SAMPLE ORDER (125 markers) . . . \$1.00 Postpaid

**LIFETIME MARKERS**  
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### Wood Feathers

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#### The Perfect Nursery Packing

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P. O. BOX 98 N. PORTLAND, ORE.  
LOW DELIVERED PRICES—We Solicit Your Inquiries

### NEW... ADD-ON

#### WIREBOUND CONTAINERS

3 SIZES GIVES YOU 7 BOX  
LENGTHS FROM 4 TO 16 FT.!

- Fits All Your Nursery Stock!
- Greater Capacity! Safer!
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Lower Packing-Shipping Costs! Write to:

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Box 272

Red Bank, N. J.



den areas. It may be a crooked-stemmed palm near a pool or a sheared podocarpus at an entrance or a dracaena in a planter box.

He further discussed the four types of specimen material frequently seen in landscape work. The formal type is the sheared and pruned plant used in formal plantings that requires a consistent and constant program of pruning to maintain a quality specimen. In this group Mr. Rood placed podocarpus, ligustrum, bougainvillea, small-leaved ficus, eugenia and some of the citrus.

The natural specimens, he stated, include a wide variety of plant materials produced with considerably less (mainly corrective) pruning. This group, he stated, includes shade trees; flowering trees; fruit trees, and those plants that will grow into interesting specimens with little or no pruning, such as self-heading philodendrons, palms, zamia and agave.

#### Character Specimens

The character specimen was the third group that Mr. Rood discussed. To produce the character specimen, he stated, the nurseryman needs to know the thinking of the landscape architect and what type of plants lends itself to producing imaginative and creative subjects in the landscape. Character specimens are grown into unusual form either by conditions imposed by nature or by the nurseryman. Some of the examples that he listed were leaning Cocos plumosa palms, Arecastrum romanzoffianum and grotesquely shaped dracaenas.

The fourth group discussed was the vine or espalier specimen group. There is a great demand for this type of material, which requires special pruning and training for the production of interesting shapes and patterns. Some of the vine-type plants Mr. Rood listed included carissa, beaumontia, fatshedera and solandra. He recommended that podocarpus, ixora, loquat and some citrus lend themselves to the imagination and creative efforts of the nurserymen in producing espaliered plants.

Mr. Rood stated that, in his experience, there is no substitute for root pruning of specimen plants prior to the date they are to be transplanted. The time required for plants to recover from root pruning varies. He further recommended that growers fertilize the plant at the time of root pruning to maintain foliage color and to encourage the production of new roots.

The program in the landscaping

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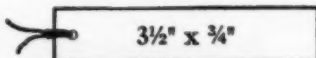
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section opened with a discussion of the extension program in home grounds improvement in Florida presented by S. A. Rose, assistant ornamental horticulturist, extension service. He pointed out that pressure for assistance in improving the home grounds is great in Florida because of the many new homeowners entering the state each year who are not familiar with local customs, climates and plant materials.

The extension program in home grounds improvement, he stated, is limited to making on-the-spot suggestions and working with county personnel. It does not attempt any detailed work with homeowners. One of the important aspects of this type of training is the landscape and gardening schools conducted by the extension personnel throughout the state.

The discussion of landscaping continued with a talk on landscaping small homes and properties by Henry Martin, superintendent of grounds, Florida State University, Tallahassee. Mr. Martin stated that the average homeowner of 20 years ago thought that a livable, landscaped home was a luxury that only the rich could afford. Today it is recognized that a well-designed landscape is within the reach of at least 75 per cent of homeowners.

This change, he noted, has been brought about by the great increase in the standard of living, in leisure time and in gardening and do-it-yourself activities on the part of the homeowner. The heavy emphasis on landscaping in national magazines and periodicals has been an important factor in creating a demand for nursery products and landscaping.

Even the small retail nurseryman should use and promote adequate and honest advertising as well as exert a continuing effort not only to improve his own knowledge of plants and his profession but also to encourage his help to become better informed. Being willing to present talks to garden clubs and serve on public and civic improvement projects is one of the best forms of advertising available to the small retail nurseryman.

### Steps in Home Landscaping

According to Mr. Martin, the nurseryman must convince the homeowner of the importance of the following five essential steps to a good small home landscape: (1) A good design and plan, (2) proper selection of plant material, (3) adequate grading and sodding to adapt the site to the landscape needs of the family, (4) proper planting to carry out the design of the prop-

Size 0	Bottom 3	Weight
Reg. 10 lb	Regul	100 \$2.75
Heavy	Heavy	100 \$3.75
Size 0 1/2	Bottom 4	Weight
Reg. 13 lb	Regul	100 \$3.50
Heavy	Heavy	100 \$4.50
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Reg. 15 lb	Regul	100 \$4.00
Heavy	Heavy	100 \$5.25
Size 2	Bottom 6	Weight
Reg. 24 lb	Regul	100 \$4.50
Heavy	Heavy	100 \$5.75

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<b>Size 0</b> Top . . . 4" Bottom 3 1/2" High 4" Weight per 100 Reg. 10 lbs. Heavy 25 Regular Weight 100 \$2.75 1000 \$25.00 Heavy Weight 100 \$3.75 1000 \$35.00	<b>Size 3</b> Top . . . 8 1/4" Bottom 6 1/2" High 6" Weight per 100 Reg. 30 lbs. Heavy 70 Regular Weight 100 \$5.00 1000 \$47.50 Heavy Weight 100 \$6.25 1000 \$60.00
<b>Size 0 1/2</b> Top . . . 5" Bottom 4" High 6" Weight per 100 Reg. 18 lbs. Heavy 30 Regular Weight 100 \$3.50 1000 \$32.50 Heavy Weight 100 \$4.50 1000 \$42.50	<b>Size *4</b> Top . . . 10" Bottom 8" High 10" Weight per 100-120 lbs. 100 \$11.00 500 \$52.50 1000 \$100 *Heavy Only -- For trees and shrubs
<b>Size 1</b> Top . . . 6" Bottom 5" High 6" Weight per 100 Reg. 15 lbs. Heavy 35 Regular Weight 100 \$4.00 1000 \$37.50 Heavy Weight 100 \$5.25 1000 \$50.00	<b>Size *5</b> Top . . . 12" Bottom 10" High 12" LG POT Weight per 100-250 lbs. 20 30 ea. 100 \$27.50 500 \$125 1000 \$225 *For extra-heavy trees, large shrubs
<b>Size 2</b> Top . . . 7" Bottom 6 1/2" High 9" Weight per 100 Reg. 24 lbs. Heavy 55 Regular Weight 100 \$4.50 1000 \$42.50 Heavy Weight 100 \$5.75 1000 \$55.00	<b>Size PAN</b> Top . . . 8 1/4" Bottom 7 1/2" High 8" PAN Weight per 100 Reg. 30 lbs. Heavy 70 Regular Weight 100 \$5.00 1000 \$47.50 Heavy Weight 100 \$6.25 1000 \$60.00

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erty and (5) adequate maintenance to produce the plant and design effects that are intended for the project.

He further pointed out that adequate maintenance affects not only the landscape designer, but also the nurseryman (through proper or improper display of his plants) and the homeowner (he can well become dissatisfied with poorly maintained home grounds). The recreational aspect of maintaining the home grounds might well be stressed as a means of encouraging homeowners to be more attentive to the fertilizing, watering and pruning needs of their plants.

The discussion of maintaining landscape plantings by James Griffin, executive secretary of the Florida Nurserymen and Growers Association, closed the afternoon program on landscape. Mr. Griffin stated that no landscape design can be expected to remain a thing of beauty without a planned system of regular maintenance, which should be divided according to the three general categories of plant materials used in landscaping—shrubs and trees, ground covers and lawn grasses.

Irrigation to supply adequate moisture must be applied at regu-



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lar intervals to insure deep rooting of plants. In general, he stated, Florida soils can be wet to a depth of six to eight inches with one inch of water. Mr. Griffin recommends watering at weekly intervals during the winter and every four to five days during the summer on the average sandy soil.

The next important step emphasized was that adequate drainage be supplied for all beds and plantings, particularly in areas where drainage is likely to be a problem. Adequate drainage is absolutely essential for the proper supply of oxygen to the plant roots and the health of the plant.

In discussing fertilization, Mr. Griffin said that a well-balanced,

regular program of feeding is superior to haphazard feeding or waiting until the plant shows signs of a deficiency before applying the fertilizer. He recommends a periodic soil test to prevent overfertilization or development of toxic levels of nutrients.

### Maintenance Tasks

Pruning should be a periodic and regular procedure in maintaining ornamental plants. The removal of dead or diseased wood, trimming of hedges and pruning informal plants to promote fruiting and flowering are musts in the well-landscaped home grounds. Pest control, proper mowing of lawns and weed control in lawns and in shrub bor-



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ders were other maintenance features emphasized by Mr. Griffin.

#### Talks for Growers

Also presented during the short course were talks on weed and pest control, soil testing, frost protection, the production of quality stock and current research at the University of Florida. Summaries of these addresses, by university, state and trade representatives, will be printed in a later issue.

At the close of the formal discussions, more than 25 growers made a trip to the horticultural experiment farm to note the plastics being tested for temporary structures, the experimental work in progress on woody ornamental plants and the turf grass experimental area.

#### TO ATTRACT THE BIRDS

[Concluded from page 6]

suburban areas have pushed farm lands and the birds still farther out. Even the parks are too well tended to provide much for the feathery tribe, and only forest preserves and other wildlife areas remain for their retreat.

For those suburban communities and especially the residents interested in birds, the nurseryman may suggest the use of more berried shrubs and small flowering trees bearing fruit, not to speak of birdbaths and feeding stations, in order to attract the birds which are now missing. Some homeowners will be reluctant to do even this much, because they think the berries and fruits may create litter on their lawns or patios. So the nurseryman will have to make selections of such shrubs and trees adapted to the locality and the whims of the clients. But this seems to be the best practical answer to those who wish to attract the birds back to their communities.

#### NEW YORK MEETING

[Continued from page 16]

bindweed is not adequate with the chemicals now available for use in nursery plantings.

Cleaning up evergreen plantings infested with perennial grasses is possible; apply atrazine or Simazine sprays on quack grass and others in plantings of arborvitae and juniper, as well as peonies and roses. Treatments are more effective as sprays for immediate results, but treatments should be confined to early spring or late summer after the crop growth for the season has been made.

Ground cover plantings can be kept relatively weed free by using atrazine, Simazine and others immediately after planting the ground

## Flower Grower,

The Home Garden Magazine, is bought, read, and loved by 400,000 families in suburbs and small towns. They buy from its pages for their lawns, their vegetable gardens, their home landscaping. They love their homes and they spend money on them.

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cover. Weed seed germination is reduced, and perennial weed growth is retarded. Seed germination is minimized for the first season after planting and, in some cases, longer.

#### Residual Effect

Hoeing or even shallow rototilling seems to increase the effectiveness of Simazine, possibly by placing it in the upper one-fourth inch of soil, where weed seed germination takes place. The zone of seed germination for cover crops is in the same area. Dr. Stanley Fertig, department of agronomy, gave nurserymen the benefit of his experience with Simazine used in corn and followed by small grains or cover crops. Dr. Fertig expressed the belief that Simazine used in summer at two pounds active per acre on the soil surface and later plowed under would not interfere with germination and growth of cover crops. The 4-pound level is too high for certain growth of crops, and a longer period would probably be needed prior to planting small grains.

Results of tests conducted by Dr. Pridham in nursery and greenhouse plots indicate that redtop grass seeds germinate and grow freely on soils treated in this manner with Simazine at rates up to four pounds after a month's time from treatment. When 40 pounds active Simazine per acre were mixed with the soil, Dr. Pridham found that growth of redtop was prevented for five months or more. When 400 pounds were used germination was prevented for at least 16 months. Under field conditions, 12 pounds active per acre on undisturbed soil has lasted for three growing seasons, but weeds and grasses grow freely where four and eight pounds were used.

When cover crops form a major roll in nursery management, the use of Simazine may well be restricted to four pounds per acre or less if cover crop planting is scheduled within six months of the date of application.

#### Equipment Demonstrations

Calibration of equipment must be considered for accurate application of granular herbicides, nematocides and fertilizers. Dr. Fertig reported on the performance of an experimental spreader built from one of the commercial units used extensively in the midwest. Field calibrations are more realistic than laboratory techniques, for the character of the soil—smooth or stony—has a great deal to do with the uniformity of the results. Dr. Robert Sweet, department of vegetable crops, showed Nobel equipment, which has given good performance in vegetable crops or in

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- 9 Lightweight (but with all these qualities) to save on freight costs.
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other areas where low rates of granular application are needed.

Dr. Arthur Bing, ornamental research laboratory, Farmingdale, demonstrated a modification of a lawn fertilizer spreader that can be used for field application in nursery crops. Wheels 30 inches to three feet in diameter are cut from plywood and bolted to the existing wheels on the fertilizer spreader. The axle is thus raised to clear young stock and the rate of flow slowed down to provide good distribution of low rates of chemicals. For larger acreage, Skibbe equipment was shown. Dr. Sweet cautioned that vermiculite as a granule is too easily wind blown to be practical.

Reporting on tests made with several formulations of Nemagon, Dr. William Mai, nematologist, Cornell, and Dr. Pridham stated that rates of the chemical exceeding those recommended for nematode control (more than two gallons or 37 pounds active per acre) reduced root growth, though plant tops appeared normal one month after treatment. At high rates, the growth was seriously retarded and discoloration and death of plants took place.

Dr. Mai explained to the nurserymen the steps necessary at present to produce stock free of the root-knot nematode. Both soil and liners should be free of these pests. Soil can be sterilized by steam or chemical means. Cuttings taken from healthy plants and rooted in sterilized media provide nematode-free stock for growing on. Clean field or container soil should be used at each step in production.

Granular Nemagon is one formulation useful in treating beds and lining-out areas. Normal equipment may be used to distribute appropriate amounts, which are rototilled into the soil. The soil is then wet down or covered. Injection of nematocides is also a common practice when soils are suitable for use of injection equipment. Nemagon is also useful when injected, as are several other chemicals. Injection can be followed by watering or irrigating.

A third procedure is the application of gas that diffuses into the soil or is injected and covered in one operation. The Dow Chemical Co. demonstrated equipment for this and left the plastic soil covering in place for future testing as a weed preventive following the setting of plants through the plastic. It was announced that a mimeographed article by Dr. Mai is available on request by nurserymen interested in nematocides.

The Budding InRow Weeder was then demonstrated by Roy Mecklen-

berg, nurseryman, stated, from several other materials, providing a level of functional stony weeds.

The meeting campus nurserymen Hall, v. bers of nurserymen. Among equipment such as chafers, ing the measure counts of the Lor. special new st. derston Gamb.



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**WOOD PRODUCTS CO., Toledo, Ohio**

berg, Cornell graduate student in nursery management. It is useful, he stated, in moving soil up to or away from small lining-out plants or larger material. It controls small seedling weeds between larger plants, provides a soil mulch around plants and is valuable in controlling the level of soil in the row. It will not function effectively, however, in stony soil, in soil containing a high percentage of debris or in large weeds.

### View Project Exhibits

The final session of the summer meeting took place at the Geneva campus of Cornell University. The nurserymen assembled at Jordan Hall, where the work of several members of the staff associated with nursery problems was exhibited. Among these were insect traps equipped with ultraviolet light for such nocturnal insects as European chafer. These are used in determining the effectiveness of insect control measures on the basis of population counts. Dr. H. Tashiro was in charge of the project.

Long Island nurserymen were especially interested in an exhibit of new small fruits and in dwarfing understock, explained by Dr. F. L. Gambrell, G. L. Slate and R. D.

Way. Professor Brase conducted a tour of the rootstock farm, where many blocks for dwarfing and other stocks are still producing understock for propagation purposes after 20 years.

Virus-free nursery stock is a major item for nurseries in the Dansville valley and western New York state. Cooperative work with those nurseries has aided in providing indexed stock. Dr. S. T. Braun and R. M. Gilmer are in charge of this project and staged the display. Prof. Claud Heit showed procedures in testing tree seed germination.

The visit to the plant introduction plots with Prof. D. D. Dolan took the imagination of many of the nurserymen, whose interest in hardy and

disease-resistant plants is always high. Two roses from Canada were reported as vigorous, hardy and thorny. They appeared to be neat and attractive.

Dr. Dolan explained that his work is with the United States Department of Agriculture plant introduction bureau and that the station is a regional one for the northeast section of the United States. Plants with special food value or ornamental value are sought and received from many unusual and remote regions of the world.

The summer meeting concluded with a luncheon at the Geneva Country Club. Eighty-five persons toured the plots at the Geneva campus and at the Ithaca campus. A. L.

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Cuts the most cans,  
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Grips one can or two. Holds on like a bull dog, yet lets go at once when you set plants down. Picks any canned plant out of a jam-packed block of

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Synesael, president of the New York State Nurserymen's Association, congratulated the several committees on a successful and pleasant meeting.

### PLAINS-NEW MEXICO MEET

[Continued from page 7]

a desire to learn). Store openings, service promotions and demonstrations stimulate curiosity.

(2) Most people like contests and competition. To illustrate, he related the money tree contest—attaching bills and coins to a balled and burlapped sweet gum tree and having visitors fill out entry blanks giving estimates of the money used and deposit them at the store. Publicity and advertising in the local newspapers and advertising on the radio were tied in with the playing of the record, "Money Tree."

An example of a competition is to give a plant to each contestant, recording the number of leaves on each plant. After two months the plant is returned, and the person having the plant with the most additional leaves wins a prize. This contest, said Dr. Jensen, provides an opportunity to sell growth-promoting items.

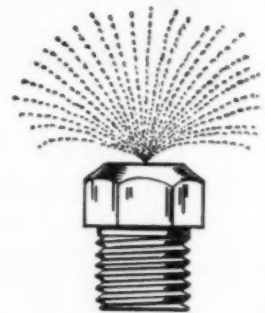
(3) Garden-minded persons like the new, rare and different plant materials and special equipment for making gardening work easier.

(4) People are interested in comparisons. Plants growing in soil containing bone meal and similar plants in soil in which superphosphate has been added can be shown, said Dr. Jensen. Visitors can be asked to predict which plants will flower first. The same thing can be done with reference to liquid versus dry feeding.

(5) People react to desires of the subconscious mind. The psychology of colors, phrases and emotional appeal affect buying. A Pennsylvania survey, said Dr. Jensen, showed the following reasons why property owners purchase nursery-grown plants, listed in order of importance: Plants add value to the property, plants provide shade, working with trees and shrubs gives pleasure and plants give privacy.

### Supermarket Merchandising

Supermarkets should be observed for merchandising ideas, believes Dr. Jensen. Their garden departments will expand in the next few years, for the housewife goes to a supermarket 20 times as frequently as to a nursery. Dr. Jensen recommended 10 important techniques of mass merchandising which supermarkets are successfully using: (1) Use the power of presold merchandise. (2) Speed



Pictured above is the Monarch H-261 fog nozzle. It has 3/4-in. male pipe thread and throws 3.3 gallons per hour at 30 lbs. Better breakup of water particles at low pressure.

5 nozzles .....	\$ 5.50
12 nozzles .....	12.00
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Tork 24-hour on/off clock ...	10.95
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Solenoid valve, 3/4-in., full ported .....	23.00

Also strainers, larger valves and other types of nozzles. Booklet upon request, showing many uses for fog in nursery operations.

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the flow of goods to the selling shelf. (3) Use the power of lowered prices—not by price cutting, but in promotional schemes. (4) Make it easy for the customer to get to the place of business (adequate parking space is needed).

(5) Make it easy for the customer to get through the nursery and sales area. Dr. Jensen suggested locating staple items which everyone buys regularly at various points in the nursery. This will make people move past other goods which they are less likely to think about buying. (6) Expose customers to the power of mass display and displays of related merchandise. (7) Give plants a selling role. Packaging is important. Have displays and change them often. (8) Give customers a buying role; make it easy for them to buy.

(9) Let salespersons sell more goods at peak periods. Teach the sales staff to be courteous and helpful, but not to spend time visiting with customers. A salesperson should not follow a customer around, but be available for advice and when a person is ready to buy. (10) Remove bottlenecks in checking out.

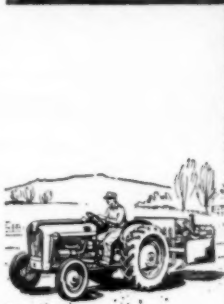
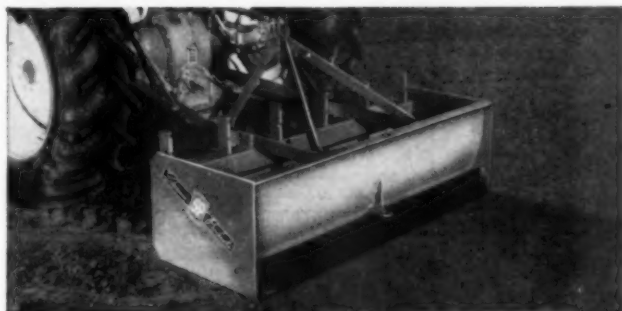
A survey conducted by a super-market of what the customer expects or looks for at a store disclosed the following: Friendliness, cleanliness and neatness, freshness of merchandise, convenience, variety, quality, uniformity of price for the same item and value.

### Insect Control

"What's New in Insect Control" was the title of the next talk, delivered by John Durkin, extension entomologist, New Mexico A. and M. Mr. Durkin stated that new chemicals are often used to cover up the mistakes in application of old chemicals. The principles for an insect control program are (1) clean-up or sanitation—eliminating overcrowded areas; (2) use of good equipment to apply materials correctly; (3) watchfulness, so insect numbers do not build up; (4) choosing the right chemical for the right job; (5) alternation of chemicals, so resistance will not be built up by the insect, and (6) helping chemicals along through application; know when to apply and be acquainted with the life cycle of insects.

No insecticide will give 100 per cent kill; so one should not be too quick to condemn a chemical, said Mr. Durkin. Also, it takes chemicals time to react, he added. Granular and systemic insecticides are the ones to watch. It is important to be aware of the toxicity of the chemicals

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to man; many of the newer ones are highly toxic. He concluded his talk by urging the nurserymen to keep acquainted with the available chemicals, as this is a fast-moving field.

## Nursery Laws

The Monday afternoon session began with a discussion of "Laws and Regulations of Interest to Nurserymen", by Dallas Rierson, director, New Mexico state department of agriculture. He called attention to the new plant protection act passed by the state legislature June 14 of this year. The law covers all nurseries and florists, he pointed out. Aspects of the law of interest to nurserymen are: It allows the board of regents to enter into reciprocal agreements with other states. The inspectors can inspect for more than pests and diseases, judging the growing condition of the stock. All stock that is sold shall be labeled with the botanical or common name. Native plants must be tagged. Each outlet of a firm must have a dealers' license, costing \$25.

Application for inspection must be made by July 1 of each year and be accompanied by a fee of \$10, plus 25 cents per acre of stock inspected.

The law allows the board to establish standards. Mr. Rierson said none have been established yet, but he desired the association to appoint a committee to work on this with the department of agriculture.

He related that there are just two quarantines in the state which might affect nurserymen. One, concerning the sweet potato weevil, affects just those plants. The other is the nut tree insect quarantine. Mr. Rierson suggested fumigating soil before planting, due to the nematode problem. He related that six or eight counties in California are now making laboratory tests on stock entering from out of state.

## New Pecan Varieties

Rounding out the Monday session was a talk on "The Development of New Pecan Varieties for the Southwest," by Roy E. Harper, associate horticulturist, New Mexico State

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University. He related that the pecan originated in the Mississippi valley and migrated westward. In work at the university, several varieties that have been developed mature two or three weeks earlier than others. Each variety has to be tested for adaptability to different soil conditions and environments.

Mr. Harper recounted some of the history of the work in developing pecan varieties. The program began in New Mexico in 1950. He also reviewed the work done at Brownwood, Tex., by the United States Department of Agriculture. However, these varieties were mainly for the southeast and were developed for resistance to pecan scab, he stated.

At New Mexico State University the first pecans were harvested in 1955. Over 750 varieties have been tested and 25 selected for advanced testing. Varieties from the southeast and north have not grown well in the southwest. Several hybrid varieties at Brownwood show promise, said Mr. Harper, and the new Wichita variety also looks good.

The future for the pecan industry in the southwest should be good. The southeast pecan industry is down, because of insects and diseases, while the southwest has almost no disease,

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ALUMINUM  
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and pecans will grow better in the drier climate. He pointed out that one county in New Mexico leads the United States in pecan production.

Starting the Tuesday morning session was a talk by M. M. "Doc" Thompson, Corona Clipper Co., Corona, Calif., on "Effect of Pruning on Plants." He pointed out that herbaceous and woody plants need different pruning treatment. It is essential to know the plant being pruned—know where the regenerating bud is. He advised against making horizontal cuts.

It is necessary to provide adequate light for the leaves. If pruning is not done, mildew may result and insect or disease traps are created. A plant properly pruned uses water properly. Mr. Thompson continued his talk with a colored slide presentation showing pruning jobs he had performed.

### Panel on Merchandising

Highlighting the morning session was a panel discussion on "Merchandising Methods in Nurseries and Garden Centers." Ralph Callaway, Callaway Nursery, Carlsbad, N. M.,

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served as moderator, and panel members included the following: William Norman, Norman Nursery & Flower Shop, Phoenix, Ariz.; Bernie Grass, southwest sales manager for California Spray-Chemical Corp., Richmond, Calif.; James Walker, Walker Nursery, Midland, Tex., and Jesse Baxter, Albuquerque Chemical Co., Albuquerque. Written questions from the audience were read by the moderator and discussed by panel members. Comments made were the following:

The net profit of a medium-sized garden center should be 5 per cent of sales. The average is 2 or 3 per cent. Of 15 California garden centers, the average was 1 3/4 per cent. The best of the group was 8 per cent. It was pointed out that this is the figure after the proprietor's salary is drawn out.

The way to meet competition from chain stores is to handle better merchandise and offer better service and knowledge of the product. When the retail price is cut 10 per cent, it is necessary to sell seven times as many plants to obtain the same profit.

In marking up merchandise one must obtain a higher markup on some items to balance those on which one cannot obtain so much.

The over-all labor payroll represents 20 per cent of sales if no landscaping is done. It is 33 1/3 per cent if landscaping is done. However, this figure can vary in different operations. An accurate breakdown on labor costs should be kept.

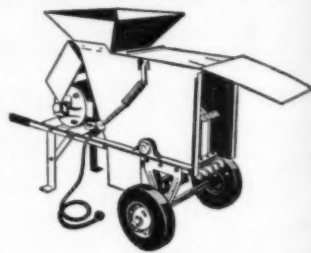
To stimulate sales, one of the panel members related that he is selecting a different item each week and paying a bonus to salespersons who exceed a certain figure. He is guaranteeing every plant for 90 days. If the plant does not survive, a new plant is furnished at 50 per cent of the original price. Another panel member said he is guaranteeing plants for 60 days, if his firm does the planting. Customers are called by telephone at the end of 60 days to see how their plants are growing. If there are any complaints, a man is dispatched to inspect the plant. This telephone calling promotes good customer relations, said the panel member.

The nurseryman is a plant doctor and should get a higher price because of his knowledge. When customers telephone and wish a nurseryman to look at plants, a service fee of \$5 is charged. The panel member said he is having no trouble collecting it. Closing on Sunday, it was concluded, is a matter of educating people to accept it.

Tuesday afternoon was devoted to

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separate meetings of the two associations. The election of officers was held as reported earlier. The Plains Nurserymen's Association, as region 6 of the Texas Association of Nurserymen, recommended that James Walker be placed in nomination as second vice-president at the forthcoming T. A. N. convention. Bill Fullingim, executive secretary of the T. A. N., was present and said the board of directors of the Texas association is considering holding a short course at Texas Tech, at Lubbock, in alternate years with the short course at College Station. He also reported on the new Texas nursery law.

The Plains association voted to continue a page advertisement in the T. A. N. buyers' guide. A motion was passed to pay the new secretary, the amount to be decided on by the new president, while the date of November 2 was decided on for a board of directors' meeting at Midland, Tex.

The president appointed a committee to study the question of raising the dues of the Plains Nurserymen's Association. Members included Max Dobson, Holden-Dobson Nursery; Raymond Mosty, and George Vineyard.

#### New Mexico Meeting

The New Mexico Association of Nurserymen heard a membership report indicating 33 members, including seven new members this year. It was decided to hold the association's meeting at Albuquerque in 1961, with the group convening with the Plains Nurserymen's Association at Midland, Tex., in 1960. Ralph Callaway was chosen to represent the association as delegate to the American Association of Nurserymen's convention at Philadelphia.

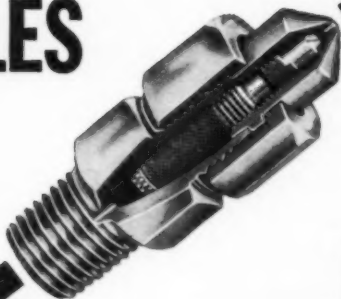
At a joint meeting of the two groups it was voted to change the name of the Dan Carpenter memorial scholarship fund so as to include all deceased members. A committee was appointed to select a suitable name.

For the final session of the convention Wednesday morning, a talk on "Plant Feeding" was given by Tom Scarborough, Tom's Tree Place, Lubbock, Tex. He explained, with the aid of charts, the process of mineral nutrition of plants.

In controlling euonymus scale, he stated, he will kill nematodes, feed the plant with minerals and then spray the top, and 9 out of 10 times the plants will not become reinfected.

If plants are properly nourished they will use one fifth as much water, he said. Mr. Scarborough showed

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colored slides of landscaping jobs done by his firm.

When feeding plants he likes to apply slow-releasing materials. He uses the "hot spot" method of feeding—drilling holes, inserting plant food in composites and letting the food stay there and not go into solution too fast. In the southwest the pH of the soil cannot be changed and maintained. Therefore, plants must be used which are tolerant to alkaline soils, he said.

Because of lack of applicants, the bus trip for the turquoise trail scenic loop drive and picnic was canceled Wednesday afternoon.

#### Social Events

The social events at the convention were thoroughly enjoyed by all and included an ice-breaker party Sunday evening, June 28. A lunch and style show the following noon were followed by a chuck wagon dinner and an informal evening dance. A luncheon Tuesday noon, June 30, had as guest speaker Delbert Downing, manager of the chamber of commerce of Midland, Tex. A special banquet, with Bernie Grass serving as master of ceremonies and Mr. Downing returning as guest speaker, was held the final evening. Dancing concluded the evening's entertainment. Bridge, canasta and shopping occupied the ladies' free time, and swimming and movies kept the children busy.

Exhibits were staged by 16 California, Texas and New Mexico firms.

#### ILLINOIS SHORT COURSE

[Continued from page 12]

taxus and pfitzer junipers spaced 42 inches apart.

The band application was decided upon because it was felt that some cultivation would be required in order to conserve moisture and also because the young plantings are seeded to spring oats in late August for a winter mulch. A broadcast application might prevent the oats from germinating.

Workers cultivated the treated area twice between the rows without disturbing the sprayed band, but did no hoeing. Mr. Anderson feels that the program has been successful and has saved the nursery over \$1,000 in cultivation expense so far this season.

Pointed out to the visitors was the heavy foliage on the nursery's taxus. The healthy condition of these plants was attributed to the chicken manure and ammonium nitrate fertilizer program adopted by the nursery.

After lunch at the picturesque

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Japanese Bamboo Plant Stakes  
from frequent arrivals.

### DYED GREEN PLANT STAKES

Hand selected and dyed a rich forest green. Uniform lead pencil thickness. Packed 2000 per bale.

Size	Price Per Bale	Av. Weight Per Bale
1½-ft.	\$ 6.00	25 lbs.
2-ft.	8.00	40 lbs.
2½-ft.	10.00	60 lbs.
3-ft.	13.00	100 lbs.
4-ft.	18.00	140 lbs.

### SPLIT BAMBOO PLANT STAKES

for lighter staking

Size	Price Per Bale	Av. Weight Per Bale
12-in.	\$ 5.00	18 lbs.
15-in.	7.00	24 lbs.
18-in.	9.00	33 lbs.
24-in.	11.00	53 lbs.

### NBS NURSERY BAMBOO STAKES

Extra-heavy for staking trees, evergreens, dahlias and other large plants.

Size-Diam.	Contents Per Bale	Price Per Bale	Average Weight Per Bale
4-ft. ½-in.	500	\$22.50	90 lbs.
5-ft. ¾-in.	250	17.50	70 lbs.
6-ft. ¾-in.	200	17.50	95 lbs.
7-ft. ¾-in.	150	19.00	85 lbs.
8-ft. ¾-in.	100	16.00	90 lbs.

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Giant City state park lodge, the tour continued to the H. B. Hartline Farm, Makanda, Ill. Heavy rains, which fell almost immediately after the group arrived at the farm's weed control test plots, caused most of the visitors to miss viewing the pre-emergence herbicide comparisons, but Prof. Lloyd Sherwood, Southern Illinois University, adequately described the results under the shelter of the farm's packing shed.

Professor Sherwood emphasized that a finely prepared seedbed is essential when using liquid herbicides and that more than one chemical is required in a balanced program in order to fit the season, soil and climate. He feels that Simazine is one of the best weed control chemicals now available, one reason being its safety when used around ornamental plant material. His opinion was borne out in the results of its use in the test plot.

Other herbicides giving good results are CIPC and Alanap. Although vegadex, randox and neburon gave poor results in these test plots, he stated that the failure may have been due to climatic and soil conditions. Neburon, he stated, is an herbicide that requires careful handling by the nurseryman, because it is a urea-based material derived from a family of materials used to kill established trees and other deep-rooted perennials. Properly applied, however, it gives long-lasting effect.

At the conclusion of Professor Sherwood's address, the group saw demonstrations of several pieces of nursery equipment, which had been brought to the farm by manufacturers' representatives and distributors.

### Plant Industry Notes

"Plant Inspection and Plant Quarantine Problems of Interest to Nurs-

erymen" was the topic of Herbert F. Seifert, horticultural inspection supervisor, Illinois division of plant industry, Wednesday's first speaker. He called attention to the fact that section 12 of the Illinois insect pest and plant disease act, requiring that a certificate of inspection or a dealer's certificate be attached to each shipment of nursery stock, large or small, applies also to retail sales made to customers at salesyards.

He pointed out in addition that any carrier of nursery stock is obliged under the law to report to the department of agriculture any nursery shipment that does not bear a valid certificate and to return the shipment to the sender, hold it for instructions from the department of agriculture or send it to the department for inspection.

In force for the first time during the 1959 spring season was a recently approved regulation providing



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that all persons or firms maintaining a salesyard, store, garden center or any place where nursery stock is sold must keep the nursery stock stored or displayed under conditions that will maintain its vigor.

Stock must be prevented from becoming devitalized or weakened by drying or excessive heat or cold through protection of the roots with dampened shavings, sawdust, shingle tow, peat moss or any other similar material.

Inspectors enforcing this new regulation found a considerable quantity of dried and devitalized stock in salesyards, particularly toward the end of the season. This was removed later from sale and ultimately was destroyed.

### 5-Year Growth Reported

Mr. Seifert reported that the Illinois nursery industry showed considerable growth in the past five years, with substantial increases in the number of nurseries inspected (from 1,099 to 1,440), the number of acres devoted to nursery production (from 6,729 to 10,111) and the number of dealers certified (from 1,332 to 3,207).

He noted that the recent inclusion of sod nurseries in the inspection program accounts for part of the increase in nurseries inspected and that the striking rise in the number of dealers certified is partly due to the fact that five years ago only the main office of a chain store group was certified, while each individual store is currently required to have a certificate.

The 10 most prevalent pests in Illinois nurseries during the 1958 season, according to Mr. Seifert, were cedar apple rust, lecanium scale, European pine-shoot moth, European elm scale, bagworm, oyster-shell scale, San Jose scale, taxus mealy bug, red spider and scurfy scale.

Malathion was recommended as the control for most of these pests, with the following exceptions: Elgetol was suggested for cedar apple rust, DDT for European pine-shoot moth, emulsifiable dormant oil spray for San Jose scale and Aramite for red spider.

Regarding the Japanese beetle in Illinois, Mr. Seifert reported that all infestations in the state, including those in the south end of Cook county and in the East St. Louis area, have received adequate treatment, with the exception of one covering 40,000 acres in Iroquois county. This infestation, however, has been hemmed in by the treatment of a 1/2-mile band around the area with heptachlor.

Dr. Donald Schoeneweiss, assist-

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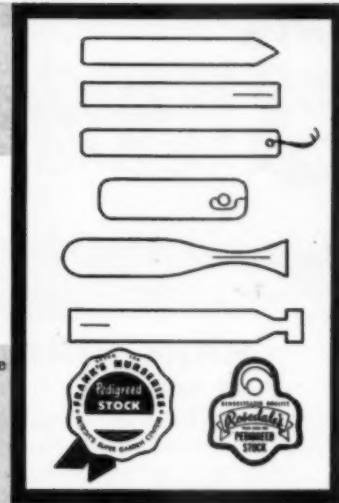
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ant plant pathologist, Illinois natural history survey, Urbana, spoke on "Diseases in the Nursery," following Mr. Seifert's address. Because all plant diseases cannot be corrected, it is extremely important that they be diagnosed early.

To receive a diagnosis of a suspected plant disease, he suggested that the nurserymen send live diseased plant specimens to either the Illinois natural history survey, Urbana; the Illinois horticultural experiment station, Carbondale, or the department of plant pathology, University of Illinois, Urbana.

Basically, there are four categories of plant diseases: Leaf spots, which can usually be controlled by foliar sprays; twig cankers, which are controlled by pruning out the infected parts and by keeping the plant material well fed and watered; vascular diseases, requiring the removal of diseased trees and an effective spray program to kill insect carriers, and root rots, which require either steam or chemical sterilization of soil or the use of resistant varieties.

Another serious problem to nurserymen, though it is not a disease, is chlorosis. This condition is usually due to iron deficiency and can be corrected by the use of chelated iron compounds. To treat scorch, a common problem on maple, oak and elm, one should trim back the tree to reduce the amount of foliage and keep it well watered.

Botrytis, which sometimes occurs on roses or other plants that retain their foliage when placed in cold storage bins, can be controlled effectively by the use of ultra-violet lights. Spraying or dipping with captan or manzate may also be effective.

### Conservation Panel

Members of the panel discussion on "Soil Conservation and Management in the Nursery," which con-

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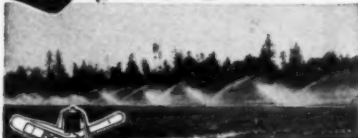
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Chases rabbits  
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cluded the program, were Prof. Herbert Portz, moderator; Dr. C. E. Ackerman, assistant professor in floriculture and ornamental horticulture, University of Illinois; Edward P. Eickhof, Eickhof Nursery, Bensenville, and Harvey Hartline.

Professor Portz opened the activity, and a lively discussion between the panel and the audience regarding the use of grasses in a soil conservation program soon began.

From the audience, Gordon Clavey, Elmer Clavey, Inc., Highland Park, stated that he has worked with the soil conservation department of the United States Department of Agriculture in developing a program at his nursery and is satisfied with its results. In the square blocks of stock, Kentucky bluegrass has been planted between the rows, where it is convenient to mow and has been of considerable help in water runoff and erosion problems.

To replace the topsoil that is shipped away in B&B material, Professor Portz suggested that the nurserymen begin tilling slightly deeper, in order to bring up the subsoil and eventually develop it as topsoil.

At the conclusion of the panel discussion Mr. Lohse formally closed the course.

### REBUILD AFTER FIRE

Shrewsbury Nurseries, Shrewsbury, Mass., announce that a new and larger building will be erected at the nursery this summer to replace the office and garden store structure that was destroyed by fire last April. Office work of the nurseries has been carried on during the past three months in hastily constructed temporary quarters.

A further problem arising from the fire, however, still exists—the nurseries lost their entire file of catalogs and trade lists from wholesale sources. R. E. Lebeaux, partner in the firm, is anxious to replace as many of these as possible and states that he will welcome stock listings from any nursery that cares to send such material.

MOVED recently to Santa Ana, Calif., from San Gabriel, Calif., were Hines Wholesale Nurseries. The firm presently has 27 acres in container stock, but plans to expand to 50 acres in the next few years.

HENRY W. HICOCK retired recently as head of the department of forestry at the Connecticut agricultural experiment station, New Haven, after 42 years on the station staff.

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